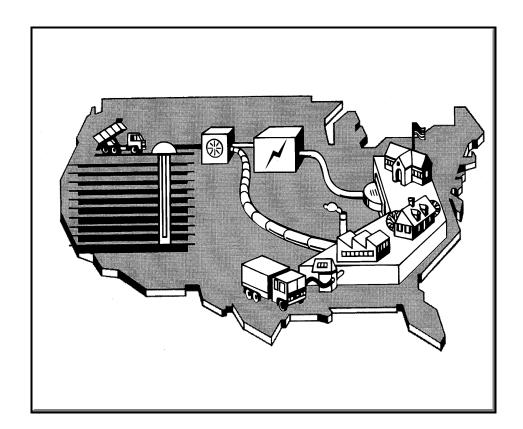


# **Landfill Gas-to-Energy Project Opportunities**

# Landfill Profiles for the State of Georgia





## **EPA Landfill Methane Outreach Program**



The EPA Landfill Methane Outreach Program, a key component of the United State's *Climate Change Action Plan*, encourages the use of landfill gas (LFG) as an energy resource. EPA assists utilities,

municipal and private landfill owners and operators, tribes, and state agencies in reducing methane emissions from landfills through the development of profitable landfill energy recovery projects. Methane captured from landfills can be transformed into a cost-effective fuel source for electricity, heat, boiler and vehicular fuel, or sale to a pipeline. EPA estimates there are approximately 200 landfill methane recovery projects in the U.S. and that up to 750 landfills could install economically viable landfill energy projects.

The Landfill Methane Outreach Program includes five important components: the State Ally, Energy Ally, Industry Ally, Community Partner, and Endorser programs. EPA establishes separate alliances with state agencies, energy providers (including investor-owned, municipal and other public power utilities and cooperatives), key trade and public sector associations, members of the landfill gas development industry (including developers, engineers, equipment vendors, and others) and local communities, municipalities and landfill owner/operators through a Memorandum of Understanding (MOU). By signing the MOU, each Ally/Partner acknowledges a shared commitment to the promotion of landfill gas-to-energy recovery at solid waste landfills, recognizes that the widespread use of landfill gas will reduce emissions of methane and other gases, and commits to undertake activities to enhance development of this resource. In return, EPA agrees to provide landfill gas-to-energy project assistance and public recognition of the Allies' and Partners' participation in the program.

## Introduction

Since 1994 the U.S. EPA's Landfill Methane Outreach Program (LMOP) has participated in an ongoing effort to gather information on Municipal Solid Waste landfills (MSW). A key component of the LMOP is to provide MSW landfill owners and operators, project developers, utilities, and other potential project participants with information on MSW landfills that may offer attractive energy development opportunities. This document presents state specific landfill information, hereinafter referred to as the landfill profiles. These profiles are useful to evaluate the potential for developing landfill gas-toenergy projects (LFGTE). EPA assembled this information from state and local sources as well as various national solid waste publications, landfill owners and operators, and project developers.

The EPA has prepared a separate document to describe the methodology used to develop the state-specific landfill profiles and estimate the benefits of using LFGTE as an energy source. The document, Landfill Gas-to-Energy Project Opportunities, Background Information on Landfill Profiles, contains background information on gas collection and use, describes the data fields according to the five sections listed on the landfill profiles, and where applicable, illustrates calculations and default values used to derive estimates. EPA strongly recommends that users read the document prior to using the landfill profiles. Users can obtain the document by calling the LMOP hotline at 1-888-STAR-YES.

#### **Data Sources**

- EPA-ORD Landfill Gas Utilization-Survey (Thorneloe, 1997)
- Directory and Atlas of Solid Waste Disposal Facilities (SWA, 1994)
- Implementation Guide for Landfill Gas Recovery Projects in the Northeast (SCS, 1994)
- Landfill Gas-to-Energy 1994-1995 Activity Report (SWT, 1994)
- Methane Recovery from Landfill Yearbook (GAA, 1994)
- · Project developers, landfill owners, and operators
- · State and local records
- · Survey of Landfill Gas Generation Potential (EPRI, 1992)
- U.S. Landfill Directory (SWANA, 1992)

## **Landfill Classification**

To facilitate the use of available landfill information, EPA has categorized the landfills into five categories: Current Project, <sup>1</sup> Candidate Project, Shutdown, Other, and Unknown waste-in-place (WIP). These categories are based on the status of the landfill's LFGTE project(s) and WIP. The generation of methane is a function of many factors, the most critical being the amount of waste-in-place and the number of years the waste has been in the landfill. Peak methane generation occurs soon after closure; therefore, the longer the landfill has been closed, the less attractive it becomes for methane recovery. Based on the general timing of peak methane generation, EPA assumes that landfills that ceased accepting waste prior to 1993 have a low probability of generating enough methane to make a gas recovery project economical. Consequently, landfills need to be operating in 1993 to be considered as having a Candidate Project.

#### Landfill Categorizes

#### **Current Project:**

 Landfill with operational LFGTE project or landfill with LFGTE project under construction.

#### Candidate Project:

- Landfill with a potential or planned LFGTE utilization project; or
- Landfill is currently operating or closed after 1993; and has more than 1,000,000 tons of municipal solid waste-inplace.<sup>2</sup>

#### Shutdown:

· Landfill with shutdown LFGTE project.

#### Other

 Landfill has less than 1,000,000 tons of municipal solid waste-in-place with no current or planned LFGTE project.

#### Unknown WIP:

 Landfill with insufficient data to determine the waste-inplace

## **State Summary**

State-specific landfill profile information is summarized in three exhibits. Exhibit 1 presents a summary of the state-specific potential for LFG utilization energy by landfill category. Exhibit 2 summarizes the emissions avoided by fossil fuel displacement for electricity generation and direct use projects. Exhibit 3 presents an index of the state-specific MSW landfills, referenced by category, landfill name and general characteristics.

<sup>&</sup>lt;sup>2</sup> By modeling the relationship between WIP and methane generation, a cut-off of 1,000,000 tons of WIP was established; landfills having at least 1,000,000 tons of WIP are considered candidate landfills.



<sup>&</sup>lt;sup>1</sup> Current projects illustrate the wide range of successful project development options.

**Exhibit 1: Georgia MSW Landfill Summary** 

| Category    | No. of    | Est. Capacity Potential |                         | Est. CH4                | Methane R |         | CO2 Equivalent of CH4 Reduction (tons/yr) |         |  |
|-------------|-----------|-------------------------|-------------------------|-------------------------|-----------|---------|---|---------|--|
|             | Landfills | Electricity<br>(MW)     | Gas Capacity (mmBtu/hr) | Generation<br>(mmscf/d) | (tons/yr) |         |   |         |  |
|             |           |                         |                         |                         | Potential | Current | Potential                                 | Current |  |
| Current     | 4         | 16                      | 161                     | 5                       | 29,683    | 18,501  | 623,351                                   | 388,523 |  |
| Candidate   | 16        | 55                      | 553                     | 18                      | 102,311   | 19,658  | 2,148,531                                 | 412,808 |  |
| Other       | 9         | 14                      | 136                     | 4                       | 25,138    | 0       | 527,898                                   | 0       |  |
| Unknown WIP | 4         |                         |                         |                         |           |         |   |         |  |
| Total       | 33        | 85                      | 850                     | 27                      | 157,132   | 38,159  | 3,299,780                                 | 801,331 |  |

# **Exhibit 2: Potential Georgia Emissions Avoided by Fossil Fuel Displacement**

| Category    |               | Electricity Generation Project |                |               |       |                |               | Direct Use Project |                |               |       |                |  |
|-------------|---------------|--------------------------------|----------------|---------------|-------|----------------|---------------|--------------------|----------------|---------------|-------|----------------|--|
|             | CO2 (tons/yr) |                                |                | SO2 (tons/yr) |       |                | CO2 (tons/yr) |                    |                | SO2 (tons/yr) |       |                |  |
|             | Coal          | Oil                            | Natural<br>Gas | Coal          | Oil   | Natural<br>Gas | Coal          | Oil                | Natural<br>Gas | Coal          | Oil   | Natural<br>Gas |  |
| Current     | 126,284       | 103,648                        | 69,695         | 798           | 667   | 0              | 89,387        | 73,365             | 49,332         | 813           | 428   | 1              |  |
| Candidate   | 437,259       | 358,883                        | 241,318        | 2,764         | 2,310 | 0              | 308,096       | 252,871            | 170,034        | 2,803         | 1,474 | 2              |  |
| Other       | 106,552       | 87,453                         | 58,805         | 674           | 563   | 0              | 75,700        | 62,131             | 41,778         | 689           | 362   | 0              |  |
| Unknown WIP |               |                                |                |               |       |                |               |                    |                |               |       |                |  |
| Total       | 670,095       | 549,984                        | 369,817        | 4,236         | 3,540 | 0              | 473,183       | 388,367            | 261,143        | 4,306         | 2,263 | 3              |  |

# **Exhibit 3: Index of Landfills in Georgia**

| Category    | Landfill Name                           |                   | WIP                   |                 | Landfill          | LFG Collected | LFG                    | Status of LFGTE |
|-------------|---|-------------------|-----------------------|-----------------|-------------------|---------------|------------------------|-----------------|
|             |   | <2.5 million tons | 2.5 to 4 million tons | >4 million tons | Operating in 1998 |               | Utilization<br>Project | Project         |
| Current     | Macon Landfill                          |                   | <b>✓</b>              |                 | ✓                 | <b>✓</b>      | <b>✓</b>               | Operational     |
| Current     | Richmond County-Dean Bridge Road L      |                   | <b>✓</b>              |                 | ✓                 | ✓             | ✓                      | Operational     |
| Current     | Southern States-Bolton Road             | ✓                 |                       |                 |                   | ✓             | <b>✓</b>               | Operational     |
| Current     | WMI-BJ Landfill Phase 3&4               |                   |                       | <b>V</b>        | ✓                 | ✓             | <b>✓</b>               | Operational     |
| Candidate   | Arnold Road LF                          | ✓                 |                       |                 | ✓                 |               |                        | Potential       |
| Candidate   | Atlanta-Gun Club Road                   |                   | <b>✓</b>              |                 |                   | ✓             |                        | Unknown         |
| Candidate   | Atlanta-Key Road                        |                   | <b>✓</b>              |                 |                   | ✓             |                        | Unknown         |
| Candidate   | Baker Place Road                        | ✓                 |                       |                 | ✓                 |               |                        | Potential       |
| Candidate   | BFI-Roberts Road                        |                   | <b>✓</b>              |                 |                   | ✓             |                        | Planned         |
| Candidate   | Chambers-Bolton Road                    | ✓                 |                       |                 | ✓                 |               |                        | Planned         |
| Candidate   | City of Forsyth-Old Brent Road, Phase I | <b>✓</b>          |                       |                 |                   |               |                        | None            |
| Candidate   | Columbus-Schatulga Road W Fill Phas     |                   | <b>✓</b>              |                 | ✓                 |               |                        | Planned         |
| Candidate   | Fayette County Landfill                 |                   |                       |                 |                   |               |                        | Potential       |
| Candidate   | Fleming/Gaissert Road                   | <b>✓</b>          |                       |                 | ✓                 |               |                        | None            |
| Candidate   | Hall County-Allen Creek Phase A         | <b>✓</b>          |                       |                 |                   |               |                        | None            |
| Candidate   | Seminole Road Phase II                  |                   | <b>✓</b>              |                 | ✓                 |               |                        | Unknown         |
| Candidate   | Speedway-SR 324 Site I                  |                   | <b>✓</b>              |                 |                   |               |                        | Planned         |
| Candidate   | UWL Inc-Richland Creek Road             |                   |                       | <b>✓</b>        | ✓                 |               |                        | Planned         |
| Candidate   | Watts Road LF                           |                   |                       | <b>✓</b>        |                   | ✓             |                        | Planned         |
| Candidate   | WMI-Live Oak LF                         |                   |                       | <b>✓</b>        | ✓                 | ✓             |                        | Planned         |
| Other       | Atlanta-Cascade Road                    | ✓                 |                       |                 | ✓                 |               |                        | Unknown         |
| Other       | BFI-Hickory Ridge                       | ✓                 |                       |                 | ✓                 |               |                        | Unknown         |
| Other       | Little Neck Road Phase II               | ✓                 |                       |                 | ✓                 |               |                        | Unknown         |
| Other       | Pecan Row MSW LF                        | ✓                 |                       |                 | ✓                 |               |                        | Unknown         |
| Other       | Southern States-SR 90/SR 127 Charing    |                   | <b>✓</b>              |                 | ✓                 |               |                        | Unknown         |
| Other       | SR 247 Klondike                         | ✓                 |                       |                 | ✓                 |               |                        | Unknown         |
| Other       | SR 294 Emerson MSW LF Phase II          | ✓                 |                       |                 | ✓                 |               |                        | Unknown         |
| Other       | SR 3 Lovejoy #2                         | ✓                 |                       |                 | ✓                 |               |                        | Unknown         |
| Other       | U.S. 78 Phase I                         | <b>✓</b>          |                       |                 |                   |               |                        | Unknown         |
| Unknown WIP | Dunlap Road Phase I                     |                   |                       |                 |                   |               |                        | Unknown         |
| Unknown WIP | Old Dixie Highway Phase II              |                   |                       |                 |                   |               |                        | Unknown         |
| Unknown WIP | Old Dixie Highway Phase IV              |                   |                       |                 |                   |               |                        | Unknown         |
| Unknown WIP | Toonigh-Hickory Flats Road              |                   |                       |                 |                   |               |                        | Unknown         |

GA - 3 December 05, 1998

| Arnold Road LF  Landfill Category:  A. GENERAL LANDFILL INFORMATION  Landfill Owner:  USA Waste Annual Acceptance Rate (tons): Year Annual Acceptance Rate Reported:                                  | Candidate |
|---|-----------|
| Landfill Owner: USA Waste Annual Acceptance Rate (tons): Landfill Owner Type: Private Year Annual Acceptance Rate Reported:   |           |
| Landfill Owner Type: Private Year Annual Acceptance Rate Reported:  | 138,613   |
|   | 1998      |
| Alternative Landfill Name: Button Gwinnett-Arnold Road Phase 3 Design Capacity (tons):  | 1,697,660 |
| City: Lawrenceville Acres Currently Landfilled (acres):   | 1,027,000 |
| County: Gwinnett Average Depth (feet):  | 40        |
| •   | 1,282,907 |
|   | 1,603,633 |
| Year Closed: 1999   |           |
| B. LANDFILL GAS COLLECTION  |           |
| Estimated Methane Generation (mmscf/d): 0.83  |           |
| LFG Collection System Status:   |           |
| Current LFG Collected (mmscf/d):  |           |
| Collection and Treatment System Required Under NSPS/EG: No  |           |
| C. LANDFILL GAS UTILIZATION   |           |
| Current Utilization:  |           |
| Utilization System Status: Potential  |           |
| Utilization System Type: Unknown  |           |
| Utilization System Start Year:  |           |
| Electric Utility Provider(s):   |           |
| Natural Gas Provider(s):  |           |
| Energy Purchaser(s):  |           |
| Capacity: Electricity Generation Project (MW) OR Direct Use Project (mmBtu/hr)  |           |
| Estimated Potential Capacity: 3   | 26        |
| Current Capacity:   |           |
| Planned Capacity: 1.2   | 10        |
| Utilities in County: Buford Electrical Dept; Georgia Power Company; Jackson Electric Dept; Jackson Electric Mer   | nber C    |
| D. ENVIRONMENTAL BENEFITS OF UTILIZATION  |           |
| Potential Current   |           |
| Methane Reduction (tons/yr): 4,788  | 0         |
| CO2 Equivalent of CH4 Reduction (tons/yr): 100,550  | 0         |
| CO2 Equivalent of CI14 Reduction (tons, yr).  |           |
| Emissions Avoided by Fossil Fuel Displacement: Electricity Generation Project Direct Use Project  |           |
| CO2 (tons/yr) $SO2 (tons/yr)$ $CO2 (tons/yr)$ $SO2$   | (tons/yr) |
| Coal: 20,521 130 14,419   | 131       |
| Coal: 20,521 130 14,419   | 69        |
| Fuel Oil: 16,843 108 11,834   | 0)        |
| Fuel Oil: 16,843 108 11,834   | 0         |
| Fuel Oil:       16,843       108       11,834         Natural Gas:       11,325       0       7,958   |           |
| Fuel Oil: 16,843 108 11,834   |           |
| Fuel Oil:         16,843         108         11,834           Natural Gas:         11,325         0         7,958             E. CONTACT INFORMATION         Landfill Operator                        |           |
| Fuel Oil:         16,843         108         11,834           Natural Gas:         11,325         0         7,958           E. CONTACT INFORMATION           Landfill Owner         Landfill Operator |           |

404-799-1047

404-799-1328



Phone Number:

Fax Number:

404-799-1047

770-307-0934

|                             |                  |                | Atlanta-Gun Club Roa        |           | TON           | Landfill Catego            | ory: Candidate |
|-----------------------------|------------------|----------------|-----------------------------|-----------|---------------|----------------------------|----------------|
|                             |                  | A. G           | ENERAL LANDFILL INFO        |           |               |                            |                |
| Landfill Owner:             |                  | Atlanta        |                             | •         | tance Rate    |                            | 0              |
| Landfill Owner Type:        | Public           |                |                             |           | -             | Rate Reported:             | 1998           |
| Alternative Landfill N      |                  |                | _                           | -         | ity (tons):   |                            | 3,599,280      |
| City:                       | Atlanta          |                |                             |           | ly Landfille  | d (acres):                 | 60             |
| County:                     | Fulton           |                |                             | ge Deptl  |               |                            | 80             |
| State:                      | GA               |                | Waste                       | e-in-Plac | e (tons):     |                            | 2,371,617      |
| Year Open:                  | 1977             |                | 1998                        | Waste-in  | -Place (ton   | s):                        | 2,766,887      |
| Year Closed:                | 1997             |                |                             |           |               |                            |                |
|                             |                  | ]              | B. LANDFILL GAS COLLE       | ECTION    |               |                            |                |
| Estimated Methane Ge        | eneration (mmsc  | f/d):          | 1                           | 1.13      |               |                            |                |
| LFG Collection System       | n Status:        |                | Operation                   | onal      |               |                            |                |
| Current LFG Collected       |                  |                |                             |           |               |                            |                |
| Collection and Treatm       | ent System Requ  |                |                             | No        |               |                            |                |
|                             |                  |                | C. LANDFILL GAS UTILIZ      | ZATION    | 1             |                            |                |
| Current Utilization:        |                  |                |                             |           |               |                            |                |
| Utilization System          | n Status:        | Unknown        |                             |           |               |                            |                |
| Utilization System          | n Type:          | Unknown        |                             |           |               |                            |                |
| Utilization System          | n Start Year:    |                |                             |           |               |                            |                |
| Electric Utility Pr         | rovider(s):      |                |                             |           |               |                            |                |
| Natural Gas Prov            | ider(s):         |                |                             |           |               |                            |                |
| Energy Purchases            | c(s):            |                |                             |           |               |                            |                |
|                             |                  | F1             | C C AM                      | ,         | O.D.          | D' (II D ' (/ D)           | и >            |
| Capacity:                   |                  | Electrici      | ty Generation Project (MW)  | (         | OR<br>T       | Direct Use Project (mmBt   | u/hr)          |
| Estimated Potent            | ial Capacity:    |                |                             | 4         |               |                            | 35             |
| Current Capacity            | :                |                |                             |           |               |                            |                |
| Planned Capacity            | :                |                | 1                           | 1.4       |               |                            | 11             |
| Utilities in County:        |                  | Cobb Electr    | ic Membership Corp; College | Park Ele  | ec Syst; Cov  | veta-Fayette Elec Memb Coo | op; East Poi   |
|                             |                  | D. ENVII       | RONMENTAL BENEFITS (        | OF UTI    | LIZATION      | Ī                          |                |
|                             |                  |                | Potentia                    | ,1        |               | Current                    |                |
| <br>  Methane Reduction (to | madur).          |                | Тотепни                     | ıı        | 6,508         | Current                    | 0              |
| CO2 Equivalent of CH        | • .              | nchr).         |                             |           | 136,674       |                            | 0              |
| CO2 Equivalent of CI        | 14 Reduction (to | (15/ y1 ).     |                             |           | 130,074       |                            | 0              |
| Emissions Avoided by        | Fossil Fuel Disp | olacement:     | Electricity Generation      | on Projec | ct            | Direct Use Pro             | pject          |
|                             |                  |                | CO2 (tons/yr)               | SO2 (to   | ns/yr)        | CO2 (tons/yr)              | SO2 (tons/yr)  |
|                             |                  | Coal:          | 27,625                      |           | 175           | 19,599                     | 178            |
|                             |                  | Fuel Oil:      | 22,673                      |           | 146           | 16,086                     | 94             |
|                             | N                | atural Gas:    | 15,246                      |           | 0             | 10,816                     | 0              |
|                             |                  |                | E. CONTACT INFORMA          | TION      |               | ,                          |                |
|                             |                  | Landfill       |                             | TION      |               | Landfill Operator          |                |
| Contact Name:               | D D G            |                |                             |           | D             |                            |                |
| Contact Name:               | Dave Peters, C   | hief Environme | ital Officer                | Dave      | Peters, Chi   | ef Environmental Officer   |                |
| Mailing Address:            | 68 Mitchell Str  | reet, S.W.     |                             | 68 M      | itchell Stree | et, S.W.                   |                |
|                             | Suite 2400, Cit  | y Hall South   |                             | Suite     | 2400, City    | Hall South                 |                |
| Phone Number:               | 404-330-6250     |                |                             | 404-3     | 330-6250      |                            |                |
| Fax Number:                 | 404-658-7552     |                |                             | 404-6     | 558-7552      |                            |                |

Page:

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State: GA

\* Itallicized indicates values estimated by EPA. December 5, 1998



|                       |                    |                  | Atlanta-Key R            | oad                                   |              | Landfill Car              | tegory:  | Candidate |
|-----------------------|--------------------|------------------|--------------------------|---------------------------------------|--------------|---------------------------|----------|-----------|
|                       |                    | A. GE            | NERAL LANDFILL I         | NFORMAT                               | ION          |                           |          |           |
| Landfill Owner:       | City of            | Atlanta          | A                        | nnual Accep                           | tance Rate   | (tons):                   |          | 0         |
| Landfill Owner Type   | : Public           |                  | Y                        | Year Annual Acceptance Rate Reported: |              |                           |          |           |
| Alternative Landfill  | Name:              |                  | D                        | esign Capaci                          | ty (tons):   |                           |          |           |
| City:                 | Atlanta            |                  | A                        | Acres Currently Landfilled (acres):   |              |                           |          |           |
| County:               | Fulton             |                  |                          | Average Depth (feet):                 |              |                           |          | 50        |
| State:                | GA                 |                  |                          | 989 Waste-ii                          |              | •                         |          | 2,341,823 |
| Year Open:            | 1974               |                  | 19                       | 998 Waste-in                          | -Place (ton  | is):                      | 3        | 3,219,923 |
| Year Closed:          | 1997               |                  | I ANDENI GAGGO           | LLECTION                              |              |                           |          |           |
|                       |                    |                  | . LANDFILL GAS CO        | LLECTION                              |              |                           |          |           |
| Estimated Methane (   | ·                  | f/d):            |                          | 1.24                                  |              |                           |          |           |
| LFG Collection System |                    |                  | Ope                      | erational                             |              |                           |          |           |
| Current LFG Collect   |                    |                  |                          |                                       |              |                           |          |           |
| Collection and Treati | ment System Requ   |                  |                          | No                                    | т            |                           |          |           |
|                       |                    | C                | LANDFILL GAS UT          | ILIZATION                             |              |                           |          |           |
| Current Utilization:  |                    |                  |                          |                                       |              |                           |          |           |
| Utilization Syste     |                    | Unknown          |                          |                                       |              |                           |          |           |
| Utilization System    | • •                | Unknown          |                          |                                       |              |                           |          |           |
| Utilization System    |                    |                  |                          |                                       |              |                           |          |           |
| Electric Utility l    |                    |                  |                          |                                       |              |                           |          |           |
| Natural Gas Pro       |                    |                  |                          |                                       |              |                           |          |           |
| Energy Purchase       | er(s):             |                  |                          |                                       |              |                           |          |           |
| Capacity:             |                    | Electricity      | y Generation Project (MV | W) (                                  | OR           | Direct Use Project (mr    | nBtu/hr) |           |
| Estimated Poter       | itial Capacity:    |                  |                          | 4                                     |              |                           |          | 39        |
| Current Capacit       |                    |                  |                          |                                       |              |                           |          |           |
| Planned Capacit       | ty:                |                  |                          | 1.3                                   |              |                           |          | 10        |
| Hailiainn in Connadan |                    | Calla Elastria   | Manakanakin Cana Call    | Dl- El-                               | - Ct- C      |                           | C E-     |           |
| Utilities in County:  |                    |                  |                          | _                                     | -            | weta-Fayette Elec Memb    | Coop; Ea | ıst Poi   |
|                       |                    | D. ENVIR         | ONMENTAL BENEFI          | TS OF UTIL                            | LIZATION     |                           |          |           |
|                       |                    |                  | Pote                     | ential                                |              | Curr                      | ent      |           |
| Methane Reduction (   | - ·                |                  |                          |                                       | 7,178        |                           |          | 0         |
| CO2 Equivalent of C   | H4 Reduction (tor  | ns/yr):          |                          |                                       | 150,742      |                           |          | 0         |
| Emissions Avoided b   | y Fossil Fuel Disg | placement:       | Electricity Gener        | ration Projec                         | et           | Direct Use                | Project  |           |
|                       | ,r                 |                  | CO2 (tons/yr)            | SO2 (to                               |              | CO2 (tons/yr)             | •        | (tons/yr) |
|                       |                    | Coal:            | 30,782                   | ,                                     | 195          | 21,616                    |          | 197       |
|                       |                    |                  |                          |                                       |              |                           |          |           |
|                       |                    | Fuel Oil:        | 25,264                   |                                       | 163          | 17,742                    |          | 103       |
|                       | N                  | atural Gas:      | 16,988                   |                                       | 0            | 11,930                    |          | 0         |
|                       |                    |                  | E. CONTACT INFOR         | MATION                                |              |                           |          |           |
|                       |                    | Landfill C       | wner                     |                                       |              | Landfill Operator         |          |           |
| Contact Name:         | Dave Peters, C     | hief Environment | al Officer               | Dave                                  | Peters, Chi  | ief Environmental Officer |          |           |
| Mailing Address:      | 68 Mitchell Str    | reet S.W         |                          | 68 M                                  | tchell Stree | et S.W                    |          |           |
| Maining Addless.      | Suite 2400, Cit    |                  |                          | I                                     |              | Hall South                |          |           |
| Phone Number:         |                    | , 11a11 50utti   |                          |                                       | _            | Hall South                |          |           |
|                       | 404-330-6250       |                  |                          | 1 404-3                               | 30-6250      |                           |          |           |

404-658-7552



Fax Number:

404-658-7552

|                        |                  |                  | BFI-Roberts Road           |            |                 | Landfill Category           | · Candidate  |
|------------------------|------------------|------------------|----------------------------|------------|-----------------|-----------------------------|--------------|
|                        |                  | A. Gl            | ENERAL LANDFILL INFO       |            | ON              | Zanajii Caregory            | Curarante    |
| I ICII O               | DEI              |                  |                            |            |                 | `                           | 0            |
| Landfill Owner:        | BFI              |                  |                            | _          | ance Rate (ton  |                             | 0            |
| Landfill Owner Type:   | Private          |                  |                            |            | cceptance Rat   | e Reported:                 | 1998         |
| Alternative Landfill N |                  |                  |                            | n Capacit  | •               |                             | 1,254,349    |
| City:                  | Atlanta          |                  |                            | -          | y Landfilled (a | icres):                     | 50           |
| County:                | Fayette          |                  |                            | age Depth  |                 |                             | 35           |
| State:                 | GA               |                  |                            | e-in-Place |                 |                             | 4,214,375    |
| Year Open:             | 1980             |                  | 1998                       | Waste-in-  | Place (tons):   |                             | 3,933,416    |
| Year Closed:           | 1993             | _                | A LANDENIA GAGGOLIA        | CONTON     |                 |                             |              |
|                        |                  |                  | B. LANDFILL GAS COLLI      | ECTION     |                 |                             |              |
| Estimated Methane Ge   |                  | f/d):            |                            | 1.42       |                 |                             |              |
| LFG Collection System  | n Status:        |                  | Operati                    | onal       |                 |                             |              |
| Current LFG Collected  | d (mmscf/d):     |                  |                            | 1.4        |                 |                             |              |
| Collection and Treatm  | ent System Requ  | uired Under NSP  | S/EG:                      | No         |                 |                             |              |
|                        |                  | (                | C. LANDFILL GAS UTILIZ     | ZATION     |                 |                             |              |
| Current Utilization:   |                  |                  |                            |            |                 |                             |              |
| Utilization Syster     | n Status:        | Planned          |                            |            |                 |                             |              |
| Utilization Syster     |                  | Unknown          |                            |            |                 |                             |              |
| Utilization Syster     | • •              | 2000             |                            |            |                 |                             |              |
| Electric Utility Pr    |                  | GA Power         |                            |            |                 |                             |              |
| Natural Gas Prov       |                  | 011101101        |                            |            |                 |                             |              |
| Energy Purchaser       |                  |                  |                            |            |                 |                             |              |
| Energy I drenaser      | (3).             |                  |                            |            |                 |                             |              |
| Capacity:              |                  | Electricit       | ty Generation Project (MW) | O          | R D             | Pirect Use Project (mmBtu/l | ır)          |
| Estimated Potent       | ial Capacity:    |                  |                            | 5          |                 |                             | 45           |
| Current Capacity:      | :                |                  |                            |            |                 |                             |              |
| Planned Capacity       | :                |                  |                            | 2.4        |                 |                             | 19           |
| Hilitias in Country    |                  | Control Coor     | orio El Mamban Cama Carvat | . Forestta | Elaa Mamb C     | com Coordia Povvar Commo    | nvu Canv     |
| Utilities in County:   |                  |                  | gia El Member Corp; Coweta |            |                 | oop; Georgia Power Compa    | illy; Grey   |
|                        |                  | D. ENVIR         | CONMENTAL BENEFITS         | OF UTIL    | IZATION         |                             |              |
|                        |                  |                  | Potentic                   | al         |                 | Current                     |              |
| Methane Reduction (to  | ons/yr):         |                  |                            |            | 8,233           |                             | 5,396        |
| CO2 Equivalent of CH   | 14 Reduction (to | ns/yr):          |                            | 1          | 72,899          |                             | 113,320      |
|                        |                  |                  |                            |            |                 |                             |              |
| Emissions Avoided by   | Fossil Fuel Disp | olacement:       | Electricity Generation     | •          |                 | Direct Use Proje            |              |
|                        |                  |                  | CO2 (tons/yr)              | SO2 (ton   | s/yr)           | CO2 (tons/yr) S             | O2 (tons/yr) |
|                        |                  | Coal:            | 35,517                     |            | 225             | 24,794                      | 226          |
|                        |                  | Fuel Oil:        | 29,151                     |            | 188             | 20,349                      | 119          |
|                        | N                | atural Gas:      | 19,602                     |            | 0               | 13,683                      | 0            |
|                        |                  |                  | E. CONTACT INFORMA         | TION       |                 |                             |              |
|                        |                  | Landfill (       |                            |            |                 | Landfill Operator           |              |
| Contact Name:          | John Bean. Dir   | ector of Marketi |                            | John B     |                 | *                           |              |
| 36.71                  |                  |                  | 5                          |            |                 |                             |              |
| Mailing Address:       | 757 North Eldr   | ridge            |                            | 757 No     | orth Eldridge   |                             |              |
| Phone Number:          | 001 070 7450     |                  |                            | 201.0      | 70.71.50        |                             |              |
|                        | 281-870-7450     |                  |                            |            | 70-7450         |                             |              |
| Fax Number:            | 504-686-0189     |                  |                            | 281-58     | 34-8043         |                             |              |



|                          |                  |                  | Baker Pl            | ace Road                            |            |              | Landfill Categ          | ory:  | Candidate   |
|--------------------------|------------------|------------------|---------------------|-------------------------------------|------------|--------------|-------------------------|-------|-------------|
|                          |                  | A. GI            | ENERAL LANDF        | ILL INFO                            | RMATIC     | N            |                         | _     |             |
| Landfill Owner:          | Columl           | oia County       |                     | Annual                              | Acceptai   | nce Rate (to | ons):                   |       | 70,000      |
| Landfill Owner Type:     | Public           |                  |                     | Year A                              | nnual Ac   | ceptance Ra  | ate Reported:           |       | 1998        |
| Alternative Landfill N   | ame: Columl      | oia County-Baker | Place Road          | Design Capacity (tons):             |            |              |                         |       | 2,240,842   |
| City:                    | Grovet           | own              |                     | Acres Currently Landfilled (acres): |            |              |                         |       | 75          |
| County:                  | Columl           | oia              |                     | Average Depth (feet):               |            |              |                         |       | 65          |
| State:                   | GA               |                  |                     | 1998 Waste-in-Place (tons):         |            |              |                         |       | 2,395,800   |
| Year Open:               | 1982             |                  |                     |                                     |            | lace (tons): |                         |       | 2,395,800   |
| Year Closed:             | 2005             |                  |                     |                                     |            |              |                         |       | , ,         |
|                          |                  | В                | . LANDFILL GA       | S COLLEC                            | CTION      |              |                         |       |             |
| Estimated Methane Ge     | eneration (mmsc  | f/d):            |                     | 1.                                  | .03        |              |                         |       |             |
| LFG Collection System    | m Status:        |                  |                     | No                                  | one        |              |                         |       |             |
| Current LFG Collected    |                  |                  |                     | (                                   | 0.0        |              |                         |       |             |
| Collection and Treatm    |                  | uired Under NSP  | S/EG:               |                                     | No         |              |                         |       |             |
|                          | <u> </u>         |                  | C. LANDFILL GA      | S UTILIZ                            | ATION      |              |                         |       |             |
| Current Utilization:     |                  |                  |                     |                                     |            |              |                         |       |             |
| Utilization System       | m Status:        | Potential        |                     |                                     |            |              |                         |       |             |
| Utilization System       |                  | Unknown          |                     |                                     |            |              |                         |       |             |
| Utilization System       |                  | Chillown         |                     |                                     |            |              |                         |       |             |
| Electric Utility P       |                  |                  |                     |                                     |            |              |                         |       |             |
| Natural Gas Prov         |                  |                  |                     |                                     |            |              |                         |       |             |
|                          | * *              | John Doons A     | acambly Dlant Coe   | nto Mattuaga                        | C          |              |                         |       |             |
| Energy Purchaser         | 1(8):            | John Deere F     | Assembly Plant, Ser | ta Mattress                         | C          |              |                         |       |             |
| Capacity:                |                  | Electricit       | y Generation Proje  | ct (MW)                             | OR         |              | Direct Use Project (mmB | tu/hr | )           |
| Estimated Potent         | ial Capacity:    |                  |                     |                                     | 3          |              |                         |       | 32          |
| Current Capacity         | :                |                  |                     |                                     |            |              |                         |       |             |
| Planned Capacity         | <i>r</i> :       |                  |                     | 1.                                  | .6         |              |                         |       | 16          |
| Utilities in County:     |                  | Georgia Pow      | er Company: Jeffer  | rson Electric                       | c Member   | · Corp. Sou  | theastern Power Admin   |       |             |
| - Committee in Country i |                  |                  | ONMENTAL BE         |                                     |            |              |                         |       |             |
|                          |                  | D. ENVIR         | OWENTAL BE          |                                     |            | ZATION       | C                       | 4     |             |
| Madama Daladan (4        |                  |                  |                     | Potential                           |            | 5.060        | Curren                  | ι     | 0           |
| Methane Reduction (to    | -                |                  |                     |                                     |            | 5,960        |                         |       | 0           |
| CO2 Equivalent of CH     | 14 Reduction (to | ns/yr):          |                     |                                     | 12         | 5,150        |                         |       | 0           |
| Emissions Avoided by     | Fossil Fuel Dist | olacement:       | Electricity         | Generation                          | ı Project  |              | Direct Use Pr           | oject |             |
| ,                        | •                |                  | CO2 (tons/y         |                                     | 5O2 (tons/ | (vr)         | CO2 (tons/yr)           | -     | 2 (tons/yr) |
|                          |                  | Coal:            | 25,2                |                                     |            | 160          | 17,946                  |       | 163         |
|                          |                  | Fuel Oil:        |                     |                                     |            |              |                         |       |             |
|                          |                  |                  | 20,7                |                                     |            | 133          | 14,730                  |       | 86          |
|                          | N                | atural Gas:      | 13,9                | 939                                 |            | 0            | 9,904                   |       | 0           |
|                          |                  |                  | E. CONTACT II       | NFORMAT                             | ΓΙΟΝ       |              |                         |       |             |
|                          | I                | Landfill (       | Owner               |                                     |            |              | Landfill Operator       |       |             |
| Contact Name:            | Don Bartles      |                  |                     |                                     | Don Ba     | rtles        |                         |       |             |
| Mailing Address:         | P.O. Box 498     |                  |                     |                                     | P.O. Bo    | x 498        |                         |       |             |
| C                        |                  |                  |                     |                                     |            |              |                         |       |             |
| Phone Number:            | 706-868-6700     |                  |                     |                                     | 706-868    | 6700         |                         |       |             |
|                          | /00-000-0700     |                  |                     |                                     | /00-808    | -0700        |                         |       |             |
| Fax Number:              |                  |                  |                     |                                     |            |              |                         |       |             |
|                          |                  |                  |                     |                                     |            |              |                         |       |             |



|                        |                  |                 | Chambers-Bolto           | n Road         |               | Landfill Categor             | : Candidate  |
|------------------------|------------------|-----------------|--------------------------|----------------|---------------|------------------------------|--------------|
|                        |                  | A. G            | ENERAL LANDFILL          |                | ION           |                              |              |
| Landfill Owner:        | USA W            | Zaste.          |                          | Annual Accept  | tance Rate (t | tous).                       | 61,408       |
| Landfill Owner Type:   |                  |                 |                          |                |               | Rate Reported:               | 1994         |
| Alternative Landfill N |                  |                 |                          | Design Capaci  | -             |                              |              |
| City:                  | Atlanta          | ı               |                          | Acres Currentl | -             | l (acres):                   | 23           |
| County:                | Fulton           |                 |                          | Average Deptl  | -             | ` ,                          |              |
| State:                 | GA               |                 |                          | Waste-in-Place |               |                              |              |
| Year Open:             | 1991             |                 | 1                        | 998 Waste-in   | -Place (tons  | ):                           | 375,294      |
| Year Closed:           | 2001             |                 |                          |                |               |                              |              |
|                        |                  | I               | B. LANDFILL GAS CO       | LLECTION       |               |                              |              |
| Estimated Methane G    | eneration (mmsc  | f/d):           |                          | 0.13           |               |                              |              |
| LFG Collection Syste   |                  | ,               |                          |                |               |                              |              |
| Current LFG Collecte   |                  |                 |                          |                |               |                              |              |
| Collection and Treatm  | nent System Requ | uired Under NSF | S/EG:                    | No             |               |                              |              |
|                        |                  |                 | C. LANDFILL GAS UT       | TILIZATION     |               |                              |              |
| Current Utilization:   |                  |                 |                          |                |               |                              |              |
| Utilization Syste      | m Status:        | Planned         |                          |                |               |                              |              |
| Utilization Syste      |                  | Direct Thern    | nal                      |                |               |                              |              |
| Utilization Syste      |                  | 1999            |                          |                |               |                              |              |
| Electric Utility P     | rovider(s):      |                 |                          |                |               |                              |              |
| Natural Gas Prov       | vider(s):        |                 |                          |                |               |                              |              |
| Energy Purchase        | er(s):           | Blue Circle     | Cement                   |                |               |                              |              |
| Capacity:              |                  | Electrici       | ty Generation Project (M | IW) (          | )R            | Direct Use Project (mmBtu/   | hr)          |
| Estimated Potent       | tial Capacity:   |                 |                          | 0              |               |                              | 4            |
| Current Capacity       |                  |                 |                          |                |               |                              |              |
| Planned Capacity       |                  |                 |                          |                |               |                              |              |
| Utilities in County:   |                  | Cobb Electri    | a Mambarahin Carne Cal   | llaga Dark Ela | o Swett Cow   | eta-Fayette Elec Memb Coop   | · East Doi   |
| Othlites in County.    |                  |                 |                          |                |               | eta-rayette Elec Mellio Coop | , East FOI   |
|                        |                  | D. ENVIR        | RONMENTAL BENEF          |                | LIZATION      |                              |              |
|                        |                  |                 | Poi                      | tential        |               | Current                      |              |
| Methane Reduction (to  | - ·              |                 |                          |                | 767           |                              | 0            |
| CO2 Equivalent of CI   | H4 Reduction (to | ns/yr):         |                          |                | 16,103        |                              | 0            |
| Emissions Avoided by   | Fossil Fuel Disa | alacomont:      | Electricity Gene         | eration Projec | · t           | Direct Use Proje             | net .        |
| Emissions Avoided by   | rossu ruei Disp  | лисетені.       | CO2 (tons/yr)            | SO2 (toi       | I             | · ·                          | O2 (tons/yr) |
|                        |                  |                 |                          | 502 (101       |               |                              | , , ,        |
|                        |                  | Coal:           | 3,157                    |                | 20            | 2,309                        | 21           |
|                        |                  | Fuel Oil:       | 2,591                    |                | 17            | 1,895                        | 11           |
|                        | N                | latural Gas:    | 1,742                    |                | 0             | 1,274                        | 0            |
|                        |                  |                 | E. CONTACT INFO          | RMATION        |               |                              |              |
|                        |                  | Landfill (      |                          |                |               | Landfill Operator            |              |
| Contact Name:          | Jerry Leone      |                 |                          | Ierry 1        | Leone         |                              |              |
|                        |                  | 1               |                          |                |               |                              |              |
| Mailing Address:       | 2236 Bolton R    | oad             |                          | 2236           | Bolton Road   | I                            |              |
| , , , , ,              |                  |                 |                          |                |               |                              |              |
| Phone Number:          | 404-799-1047     |                 |                          | 404-7          | 99-1047       |                              |              |
| Fax Number:            |                  |                 |                          | 404-7          | 99-1328       |                              |              |
|                        |                  |                 |                          |                |               |                              |              |



|                        |                  | C               | ity of Forsyth-Old B | rent Road, Phas                     | se I&II          | Landfill Catego          | ory: Candidate |  |
|------------------------|------------------|-----------------|----------------------|-------------------------------------|------------------|--------------------------|----------------|--|
|                        |                  | A. G            | ENERAL LANDFI        | LL INFORMA                          | ATION            |                          |                |  |
| Landfill Owner:        | City of          | Forsyth         |                      | Annual Acc                          | eptance Rate (   | tons):                   | 0              |  |
| Landfill Owner Type:   | -                | •               |                      |                                     | al Acceptance I  |                          | 1998           |  |
| Alternative Landfill N |                  | nd Waste, Inc ( | Old Brent Road       | Design Cap                          | acity (tons):    | •                        | 873,423        |  |
| City:                  | Forsyth          | 1               |                      | Acres Currently Landfilled (acres): |                  |                          |                |  |
| County:                | Monro            |                 |                      | Average De                          | -                |                          | 60             |  |
| State:                 | GA               |                 |                      | Waste-in-P                          | -                |                          | 1,202,706      |  |
| Year Open:             | 1977             |                 |                      |                                     | -in-Place (tons  | y):                      | 1,269,523      |  |
| Year Closed:           | 1995             |                 |                      |                                     | ,                | ,                        | , ,            |  |
|                        |                  | ]               | B. LANDFILL GAS      | S COLLECTION                        | ON               |                          |                |  |
| Estimated Methane G    | eneration (mmsc  | rf/d):          |                      | 0.74                                |                  |                          |                |  |
| LFG Collection System  |                  | ,               |                      | None                                |                  |                          |                |  |
| Current LFG Collecte   |                  |                 |                      | 0.0                                 |                  |                          |                |  |
| Collection and Treatm  |                  | uired Under NSI | PS/EG:               | No                                  |                  |                          |                |  |
|                        |                  |                 | C. LANDFILL GA       |                                     | ON               |                          |                |  |
| Current Utilization:   |                  |                 |                      |                                     |                  |                          |                |  |
| Utilization System     | m Status         | None            |                      |                                     |                  |                          |                |  |
| Utilization System     |                  | Unknown         |                      |                                     |                  |                          |                |  |
| · ·                    | • •              | Unknown         |                      |                                     |                  |                          |                |  |
| Utilization System     |                  |                 |                      |                                     |                  |                          |                |  |
| Electric Utility P     |                  |                 |                      |                                     |                  |                          |                |  |
| Natural Gas Prov       |                  |                 |                      |                                     |                  |                          |                |  |
| Energy Purchase        | r(s):            |                 |                      |                                     |                  |                          |                |  |
| Capacity:              |                  | Electrici       | ty Generation Projec | et (MW)                             | OR               | Direct Use Project (mmBt | u/hr)          |  |
| Estimated Potent       | ial Capacity:    |                 |                      | 2                                   |                  |                          | 23             |  |
| Current Capacity       | :                |                 |                      |                                     |                  |                          |                |  |
| Planned Capacity       | <b>/</b> :       |                 |                      | 0.8                                 |                  |                          | 9              |  |
| Utilities in County:   |                  | Amicalola E     | Electric Member Cor  | p; Central Geor                     | gia El Member    | Corp; Forsyth Water & Lt | Dept; Geor     |  |
| ,                      |                  |                 | RONMENTAL BEI        |                                     | _                |                          | * '            |  |
|                        |                  | D. EIVII        |                      |                                     | ILIZATION        |                          |                |  |
| M. J. D. J. C. C.      | ( )              |                 |                      | Potential                           | 4.204            | Current                  |                |  |
| Methane Reduction (to  | - ·              |                 |                      |                                     | 4,294            |                          | 0              |  |
| CO2 Equivalent of CH   | 14 Reduction (to | ns/yr):         |                      |                                     | 90,174           |                          | 0              |  |
| Emissions Avoided by   | Fossil Fuel Dist | placement:      | Electricity          | Generation Pro                      | pject            | Direct Use Pro           | <br>piect      |  |
|                        | 1                |                 | CO2 (tons/yi         |                                     | (tons/yr)        | CO2 (tons/yr)            | SO2 (tons/yr)  |  |
|                        |                  | Coal:           | 18,1                 |                                     | 115              | 12,931                   | 118            |  |
|                        |                  | Fuel Oil:       | 14,8                 | 99                                  | 96               | 10,613                   | 62             |  |
|                        | λ.               |                 |                      |                                     |                  | •                        |                |  |
|                        |                  | latural Gas:    | 10,0                 |                                     | 0                | 7,136                    | 0              |  |
|                        |                  | I 4£:11         | E. CONTACT IN        | NFORMATION                          | N                | I JCII Ot                |                |  |
| C N                    |                  | Landfill        | Owner                |                                     |                  | Landfill Operator        |                |  |
| Contact Name:          | Paul H. Jossey   | , Jr.           |                      | Pa                                  | ıl H. Jossey, Jr | :                        |                |  |
| Mailing Address:       | P.O. Box 1447    | 1               |                      | P.0                                 | D. Box 1447      |                          |                |  |
|                        |                  |                 |                      |                                     |                  |                          |                |  |
| Phone Number:          | 912-994-5649     |                 |                      | 91:                                 | 2-994-5649       |                          |                |  |
| Fax Number:            |                  |                 |                      |                                     |                  |                          |                |  |
|                        |                  |                 |                      |                                     |                  |                          |                |  |

\* Itallicized indicates values estimated by EPA.



December 5, 1998

State: GA

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Columbus-Schatulga Road W Fill Phase 2 Landfill Category: Candidate A. GENERAL LANDFILL INFORMATION Landfill Owner: City of Columbus Annual Acceptance Rate (tons): 177,721 Landfill Owner Type: Public Year Annual Acceptance Rate Reported: 1994 Alternative Landfill Name: Design Capacity (tons): 2,521,896 City: Columbus Acres Currently Landfilled (acres): County: Muscogee Average Depth (feet): 60 State: GA Waste-in-Place (tons): 2,354,569 2,690,936 Year Open: 1983 1998 Waste-in-Place (tons): Year Closed: **B. LANDFILL GAS COLLECTION** Estimated Methane Generation (mmscf/d): 1.11 LFG Collection System Status: Current LFG Collected (mmscf/d): Collection and Treatment System Required Under NSPS/EG: No C. LANDFILL GAS UTILIZATION Current Utilization: **Utilization System Status:** Planned Unknown Utilization System Type: Utilization System Start Year: Electric Utility Provider(s): Natural Gas Provider(s): Energy Purchaser(s): Georgia Power Capacity: Electricity Generation Project (MW) OR Direct Use Project (mmBtu/hr) Estimated Potential Capacity: 4 35 Current Capacity: Planned Capacity: 3.5 34 Flint Electric Membership Corp; Georgia Power Company; Southeastern Power Admin; Troup Electr Utilities in County:

| D. ENVIRONMENTAL BENEFITS OF UTILIZATION       |                   |                |                    |               |  |  |  |  |  |
|--|-------------------|----------------|--------------------|---------------|--|--|--|--|--|
|  | Pote              | ential         | Curre              | ent           |  |  |  |  |  |
| Methane Reduction (tons/yr):                   |                   | 6,396          |                    | 0             |  |  |  |  |  |
| CO2 Equivalent of CH4 Reduction (tons/yr):     |                   | 134,316        | 0                  |               |  |  |  |  |  |
| Emissions Avoided by Fossil Fuel Displacement: | Electricity Gener | cation Project | Direct Use Project |               |  |  |  |  |  |
|  | CO2 (tons/yr)     | SO2 (tons/yr)  | CO2 (tons/yr)      | SO2 (tons/yr) |  |  |  |  |  |
| Coal:  | 27,625            | 175            | 19,261             | 175           |  |  |  |  |  |
| Fuel Oil:                                      | 22,673            | 146            | 15,808             | 92            |  |  |  |  |  |
| Natural Gas:                                   | 15,246            | 0              | 10,630             | 0             |  |  |  |  |  |
|  | E. CONTACT INFOR  | MATION         |                    |               |  |  |  |  |  |

Landfill Owner Landfill Operator Contact Name: Jack Aldridge, Deputy Director of Public Services Jack Aldridge, Deputy Director of Public Services Mailing Address: P.O. Box 1340 P.O. Box 1340 Phone Number: 706-653-4159 706-571-4878 Fax Number:

<sup>\*</sup> Itallicized indicates values estimated by EPA. December 5, 1998 State: GA 8 Page:



|                                |             |                 | Fayette County I         |                |                | Landfill Category           | Candidate    |
|--------------------------------|-------------|-----------------|--------------------------|----------------|----------------|-----------------------------|--------------|
|                                |             | <b>A. G</b>     | ENERAL LANDFILL I        | NFORMATI       | ON             |                             |              |
| Landfill Owner:                | Fayette     | County          | A                        | Annual Accepta | ance Rate      | (tons):                     |              |
| Landfill Owner Type:           | Public      |                 |                          |                |                | Rate Reported:              | 1998         |
| Alternative Landfill Name:     |             |                 |                          | Design Capacit |                | •                           |              |
| City:                          | Fayette     | ville           |                          | cres Currently |                | ed (acres):                 |              |
| County:                        | •           |                 |                          | verage Depth   |                |                             |              |
| State:                         | GA          |                 |                          | 1998 Waste-in  |                | ns):                        |              |
| Year Open:                     | 1990        |                 |                          | 998 Waste-in-  |                | •                           |              |
| Year Closed:                   | 1998        |                 | _                        |                | - 1010 - (1011 | /-                          |              |
|                                |             | 1               | B. LANDFILL GAS CO       | LLECTION       |                |                             |              |
| T                              |             |                 |                          |                |                |                             |              |
| Estimated Methane Generat      | -           | f/d):           |                          |                |                |                             |              |
| LFG Collection System Stat     |             |                 |                          |                |                |                             |              |
| Current LFG Collected (mm      |             |                 |                          |                |                |                             |              |
| Collection and Treatment Sy    | ystem Requ  |                 |                          | No             |                |                             |              |
|                                |             |                 | C. LANDFILL GAS UT       | TILIZATION     |                |                             |              |
| Current Utilization:           |             |                 |                          |                |                |                             |              |
| Utilization System Stat        | tus:        | Potential       |                          |                |                |                             |              |
| Utilization System Typ         |             | Unknown         |                          |                |                |                             |              |
| Utilization System Star        |             |                 |                          |                |                |                             |              |
| Electric Utility Provide       |             |                 |                          |                |                |                             |              |
| Natural Gas Provider(s         |             |                 |                          |                |                |                             |              |
| Energy Purchaser(s):           | ,           |                 |                          |                |                |                             |              |
| Zneigj i drendser(s).          |             |                 |                          |                |                |                             |              |
| Capacity:                      |             | Electrici       | ty Generation Project (M | W) O           | R              | Direct Use Project (mmBtu/h | nr)          |
| Estimated Potential Ca         | macity:     |                 |                          |                |                |                             |              |
| Current Capacity:              | ipacity.    |                 |                          |                |                |                             |              |
| Planned Capacity:              |             |                 |                          |                |                |                             |              |
| Trainied Capacity.             |             |                 |                          |                |                |                             |              |
| Utilities in County:           |             |                 |                          |                |                |                             |              |
|                                |             | D. ENVIE        | RONMENTAL BENEF          | TS OF UTIL     | IZATION        | N                           |              |
|                                |             | 2,21,12         |                          |                |                |                             |              |
|                                | ,           |                 | Poi                      | ential         |                | Current                     |              |
| Methane Reduction (tons/yr     |             |                 |                          |                |                |                             |              |
| CO2 Equivalent of CH4 Rea      | duction (to | ns/yr):         |                          |                |                |                             |              |
| Emissions Avoided by Fossi     | l Fuel Dis  | lacomont:       | Electricity Gene         | ration Project | 4              | Direct Use Projec           | n#           |
| Emissions Avoided by Possi     | i Puei Disp | лисетені.       | CO2 (tons/yr)            | SO2 (ton       |                |                             | O2 (tons/yr) |
|                                |             |                 | CO2 (tons/yr)            | 302 (ion       | s/yr)          | CO2 (tons/yr)               | J2 (tons/yr) |
|                                |             | Coal:           |                          |                |                |                             |              |
|                                |             | Fuel Oil:       |                          |                |                |                             |              |
|                                |             |                 |                          |                |                |                             |              |
|                                | N           | atural Gas:     |                          |                |                |                             |              |
|                                |             |                 | E. CONTACT INFO          | RMATION        |                | <b>'</b>                    |              |
|                                |             | Landfill        | Owner                    |                |                | Landfill Operator           |              |
| Contact Name: Kirk             | Houser C    | County Engineer |                          |                |                |                             |              |
|                                |             |                 |                          |                |                |                             |              |
| -                              | -           | Engineering De  | -                        |                |                |                             |              |
| 140                            | Stonewall   | Avenue W., Sui  | te 203                   |                |                |                             |              |
| Phone Number: 770-             | -460-5730   |                 |                          | 770-46         | 51-3142        |                             |              |
|                                |             |                 |                          |                |                |                             |              |
| Fax Number:                    |             |                 |                          |                |                |                             |              |
| * Itallicized indicates values | estimated   | by EPA.         | Dec                      | cember 5, 1998 | 3              | State: GA Page              | e: 9         |

<sup>\*</sup> Itallicized indicates values estimated by EPA. December 5, 1998 State: GA



|                             |                  |                  | Fleming/Gais   | ssert Road       |               | Landfill Cate           | gory:  | Candidate   |
|-----------------------------|------------------|------------------|--|------------------|---------------|-------------------------|--------|-------------|
|                             |                  | A. GE            | NERAL LANDFII  |                  | ΓΙΟΝ          | ,                       |        |             |
| Landfill Owner:             | Dough            | erty County      |  | Annual Acce      | ntance Rate ( | tons):                  |        | 146,344     |
| Landfill Owner Type:        | _                | erry country     |  |                  |               | Rate Reported:          |        | 1998        |
| Alternative Landfill N      |                  | erty County-Flem | County-Fleming/Gaissert Road Design Capacity (tons): |                  |               |                         |        | 2,305,000   |
| City:                       | Flemin           |                  | Acres Currently Landfilled (acres):                  |                  |               |                         |        | , ,         |
| County:                     | Dough            | _                |  | Average Dep      | -             | ,                       |        | 10          |
| State:                      | GA               | •                |  |                  |               |                         |        | 1,697,700   |
| Year Open:                  | 1982             |                  |  |                  |               |                         |        | 1,924,060   |
| Year Closed:                | 2007             | 2007             |  |                  |               |                         |        |             |
|                             |                  | В                | LANDFILL GAS   | COLLECTIO        | N             |                         |        |             |
| Estimated Methane G         | eneration (mmsc  | rf/d):           |  | 0.91             |               |                         |        |             |
| LFG Collection Syste        | m Status:        |                  |  | None             |               |                         |        |             |
| Current LFG Collecte        | d (mmscf/d):     |                  |  | 0.0              |               |                         |        |             |
| Collection and Treatm       | nent System Req  | uired Under NSPS | S/EG:  | No               |               |                         |        |             |
|                             |                  | C                | . LANDFILL GAS                                       | UTILIZATIO       | N             |                         |        |             |
| Current Utilization:        |                  |                  |  |                  |               |                         |        |             |
| Utilization Syste           | m Status:        | None             |  |                  |               |                         |        |             |
| Utilization Syste           | m Type:          | Unknown          |  |                  |               |                         |        |             |
| Utilization Syste           | m Start Year:    |                  |  |                  |               |                         |        |             |
| Electric Utility P          | rovider(s):      |                  |  |                  |               |                         |        |             |
| Natural Gas Prov            | vider(s):        |                  |  |                  |               |                         |        |             |
| Energy Purchase             | r(s):            |                  |  |                  |               |                         |        |             |
| Capacity:                   |                  | Electricity      | Generation Project                                   | (MW)             | OR            | Direct Use Project (mm  | Btu/hr | ·)          |
| Estimated Potent            | tial Capacity:   |                  |  | 3                |               |                         |        | 28          |
| Current Capacity            | <b>7:</b>        |                  |  |                  |               |                         |        |             |
| Planned Capacity            | y:               |                  |  | 2.4              |               |                         |        | 24          |
| Utilities in County:        |                  | Albany Water     | , Gas & Light Com                                    | m; Georgia Pow   | er Company;   | Mitchell Electric Membe | r Corp | ; South     |
|                             |                  | D. ENVIR         | ONMENTAL BEN   | EFITS OF UT      | LIZATION      |                         |        |             |
|                             |                  |                  |  | Potential        |               | Curre                   | nt     |             |
| <br>  Methane Reduction (to | ons/vr):         |                  |  | 1 Otennai        | 5,262         | Curre                   |        | 0           |
| CO2 Equivalent of CH        | • '              | ns/vr):          |  |                  | 110,500       |                         |        | 0           |
|                             |                  | , 5. 7.          |  |                  | ,             |                         |        |             |
| Emissions Avoided by        | Fossil Fuel Disp | placement:       | •  | Generation Proje |               | Direct Use F            |        |             |
|                             |                  |                  | CO2 (tons/yr)  | SO2 (to          | ons/yr)       | CO2 (tons/yr)           | SO     | 2 (tons/yr) |
|                             |                  | Coal:            | 22,10  | 0                | 140           | 15,846                  |        | 144         |
|                             |                  | Fuel Oil:        | 18,13  | 9                | 117           | 13,005                  |        | 76          |
|                             | λ                | latural Gas:     | 12,19  | 7                | 0             | 8,745                   |        | 0           |
|                             |                  | diiirai Gas.     | E. CONTACT INI                                       |                  |               | 0,743                   |        |             |
|                             |                  | Landfill O       |  | TORMATION        |               | Landfill Operator       |        |             |
| Contact Name:               | Gil Barrett      | 2                | ···  | Cit              | Barrett       |                         |        |             |
|                             |                  |                  |  |                  |               |                         |        |             |
| Mailing Address:            | 2108 Habersha    |                  |  |                  | Habersham     | Road                    |        |             |
|                             | P.O. Box 1827    | 1                |  | P.O.             | Box 1827      |                         |        |             |
| Phone Number:               | 912-431-2121     |                  |  | 912-             | 431-2121      |                         |        |             |
| Fax Number:                 | 912-883-1120     |                  |  |                  |               |                         |        |             |
|                             |                  |                  |  |                  |               |                         |        |             |



|   |                        | II-ll County Allo              | Carala Diagra A  |              | Landfill Catalogue             | . C1:1-4-   |
|---|------------------------|--------------------------------|------------------|--------------|--------------------------------|-------------|
|   | A. G                   | Hall County-Alle ENERAL LANDFI |                  | TION         | Landfill Category              | : Candidate |
| Landfill Owner:   | Hall County, Public Wo |                                | Annual Acce      |              | tons):                         |             |
| Landfill Owner Type:  | Public                 | <b></b>                        | _                |              | Rate Reported:                 | 1994        |
| Alternative Landfill Name:  |                        |                                | Design Capac     | -            |                                | 1,324,235   |
| City:   | Gainesville (near)     |                                | Acres Curren     | -            | d (acres):                     | 28          |
| County:   | Hall                   |                                | Average Dept     | -            |                                | 60          |
| State:  | GA                     |                                | Waste-in-Plac    |              |                                | 1,149,551   |
| Year Open:  | 1984                   |                                | 1998 Waste-ii    |              | y):                            | 1,326,405   |
| Year Closed:  | 1998                   |                                |                  | ,            | ,                              | , ,         |
|   | ]                      | B. LANDFILL GAS                | S COLLECTION     | N            |                                |             |
| Estimated Methane Generation  | n (mmscf/d):           |                                | 0.76             |              |                                |             |
| LFG Collection System Status:   |                        |                                | None             |              |                                |             |
| Current LFG Collected (mmscf/d):  |                        |                                | 0.0              |              |                                |             |
| Collection and Treatment System Required Under NSPS/EG:   |                        |                                | No               |              |                                |             |
| •   |                        | C. LANDFILL GA                 | S UTILIZATIO     | N            |                                |             |
| Current Utilization:     Utilization System Status     Utilization System Type:     Utilization System Start Y     Electric Utility Provider(s)     Natural Gas Provider(s):     Energy Purchaser(s): | Unknown<br>Year:       |                                |                  |              |                                |             |
| Capacity:   | Electrici              | ty Generation Projec           | et (MW)          | OR           | Direct Use Project (mmBtu/h    | nr)         |
| Estimated Potential Capa<br>Current Capacity:   | acity:                 |                                | 2                |              |                                | 24          |
| Planned Capacity:   |                        |                                | 1.5              |              |                                | 15          |
| Utilities in County:  | Georgia Pov            | ver Company; Haber             | sham Elec Memb   | er Corp; Jac | kson Electric Dept; Jackson El | ectric Me   |
|   | D. ENVII               | RONMENTAL BEI                  | NEFITS OF UTI    | LIZATION     |                                |             |
|   |                        |                                | Potential        |              | Current                        |             |
| Methane Reduction (tons/yr):  |                        |                                |                  | 4,378        |                                | 0           |
| CO2 Equivalent of CH4 Reduc   | ction (tons/yr):       |                                |                  | 91,940       |                                | 0           |
| Emissions Avoided by Fossil F   | Suel Displacement:     | Electricity                    | Generation Proje | ect          | Direct Use Projec              | et          |

| D. ENVIRONMENTAL BENEFITS OF UTILIZATION       |                   |                |                    |               |  |  |  |  |  |
|--|-------------------|----------------|--------------------|---------------|--|--|--|--|--|
|  | Pote              | ential         | Current            |               |  |  |  |  |  |
| Methane Reduction (tons/yr):                   |                   | 4,378          |                    | 0             |  |  |  |  |  |
| CO2 Equivalent of CH4 Reduction (tons/yr):     |                   | 91,940         |                    | 0             |  |  |  |  |  |
| Emissions Avoided by Fossil Fuel Displacement: | Electricity Gener | ration Project | Direct Use Project |               |  |  |  |  |  |
|  | CO2 (tons/yr)     | SO2 (tons/yr)  | CO2 (tons/yr)      | SO2 (tons/yr) |  |  |  |  |  |
| Coal:  | 18,943            | 120            | 13,184             | 120           |  |  |  |  |  |
| Fuel Oil:                                      | 15,547            | 100            | 10,821             | 63            |  |  |  |  |  |
| Natural Gas:                                   | 10,454            | 0              | 7,276              | 0             |  |  |  |  |  |
|  | E. CONTACT INFOR  | MATION         |                    |               |  |  |  |  |  |

| Landfill Owner | Landfill Operator                       |
|----------------|---|
| Donald Mills   | Donald Mills                            |
| P.O. Box 1435  | P.O. Box 1435                           |
|                |   |
| 770-535-8260   | 770-535-8260                            |
| 770-531-3945   | 770-531-3945                            |
|                | Donald Mills P.O. Box 1435 770-535-8260 |



|   |                             |                 | Macon Landfil             | 1                                   |                | Landfill Category          | : Current    |
|---|-----------------------------|-----------------|---------------------------|-------------------------------------|----------------|----------------------------|--------------|
|   |                             | A. G            | ENERAL LANDFILL IN        | FORMAT                              | ION            |                            |              |
| Landfill Owner:                         | City of                     | Macon           | An                        | nual Accep                          | tance Rate (to | ons):                      | 124,000      |
| Landfill Owner Type:                    | Public                      |                 | Ye                        | ar Annual A                         | Acceptance Ra  | ate Reported:              | 1998         |
| Alternative Landfill N                  | ame: Macon-                 | -Walker Road Pl | nase II De                | sign Capaci                         | ity (tons):    |                            | 2,819,436    |
| City:                                   | Macon                       |                 | Ac                        | Acres Currently Landfilled (acres): |                |                            | 110          |
| County:                                 | Bibb                        |                 | Av                        | erage Deptl                         | h (feet):      |                            | 80           |
| State:                                  | GA                          |                 | 19                        | 94 Waste-ii                         | n-Place (tons) | ):                         | 3,500,000    |
| Year Open:                              | 1960                        |                 | 199                       | 98 Waste-in                         | -Place (tons). | :                          | 3,979,322    |
| Year Closed: 2008                       |                             |                 |                           |                                     |                |                            |              |
|   |                             | I               | B. LANDFILL GAS COL       | LECTION                             | I              |                            |              |
| Estimated Methane Ge                    | eneration (mmsc             | f/d):           |                           | 1.22                                |                |                            |              |
| LFG Collection System                   | n Status:                   |                 | Operational               |                                     |                |                            |              |
| Current LFG Collected                   | d (mmscf/d):                |                 |                           | 1.3                                 |                |                            |              |
| Collection and Treatm                   | S/EG:                       | No              |                           |                                     |                |                            |              |
|   | C. LANDFILL GAS UTILIZATION |                 |                           |                                     |                |                            |              |
| Current Utilization:                    |                             |                 |                           |                                     |                |                            |              |
| Utilization Syster                      | n Status:                   | Operational     |                           |                                     |                |                            |              |
| Utilization System Type: Direct Thermal |                             |                 |                           |                                     |                |                            |              |
| Utilization System Start Year: 1986     |                             |                 |                           |                                     |                |                            |              |
| Electric Utility Provider(s):           |                             |                 |                           |                                     |                |                            |              |
| Natural Gas Prov                        |                             |                 |                           |                                     |                |                            |              |
| Energy Purchaser                        | ` '                         |                 |                           |                                     |                |                            |              |
| Energy Turemuser                        | (5).                        |                 |                           |                                     |                |                            |              |
| Capacity:                               |                             | Electrici       | ty Generation Project (MW | <i>'</i> ) (                        | OR             | Direct Use Project (mmBtu/ | nr)          |
| Estimated Potent                        | ial Capacity:               |                 |                           | 4                                   |                |                            | 38           |
| Current Capacity:                       | :                           |                 |                           |                                     |                |                            | 27           |
| Planned Capacity                        | :                           |                 |                           |                                     |                |                            |              |
| Utilities in County:                    |                             | Central Geor    | gia El Member Corp; Flin  | Electric M                          | lembership Co  | orp; Georgia Power Compan  | y; Lamar     |
|   |                             | D. ENVIR        | RONMENTAL BENEFIT         | S OF UTI                            | LIZATION       |                            |              |
|   |                             |                 | Poter                     | ntial                               |                | Current                    |              |
| Methane Reduction (to                   | ons/vr):                    |                 | 1 010.                    |                                     | 7,062          | Cultur                     | 5,011        |
| CO2 Equivalent of CH                    | • .                         | ns/vr)·         |                           |                                     | 148,310        |                            | 105,225      |
| E & E Equivalent of En                  |                             |                 |                           |                                     | 1.0,510        |                            |              |
| Emissions Avoided by                    | Fossil Fuel Disp            | olacement:      | Electricity Genera        | ation Projec                        | ct             | Direct Use Proje           | ct           |
|   |                             |                 | CO2 (tons/yr)             | SO2 (to                             | ns/yr)         | CO2 (tons/yr) S            | O2 (tons/yr) |
|   |                             | Coal:           | 29,993                    |                                     | 190            | 21,267                     | 194          |
|   |                             | Fuel Oil:       | 24,617                    |                                     | 159            | 17,455                     | 102          |
|   | λì                          | atural Gas:     | 16,553                    |                                     | 0              | 11,737                     | 0            |
|   |                             | aturat Gas.     |                           | * A TOTAL                           | 0              | 11,/3/                     | 0            |
|   |                             | Landfill (      | E. CONTACT INFORM         | MATION                              |                | Landfill Operator          |              |
| Contact Name:                           | I D                         | Landini         | 3 wher                    |                                     | D              | Landini Operator           |              |
| Comaci Ivame.                           | Larry Brown                 |                 |                           |                                     | Brown          |                            |              |
| Mailing Address:                        | 327 Lower Pop               | olar Street     |                           | 327 L                               | Lower Poplar S | Street                     |              |
| Phone Number:                           | 010.751.0100                |                 |                           | 010.5                               | 45 0121        |                            |              |
|   | 912-751-9132                |                 |                           | 912-7                               | 45-9131        |                            |              |
| Fax Number:                             |                             |                 |                           |                                     |                |                            |              |
|   |                             |                 |                           |                                     |                |                            |              |

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State: GA

\* Itallicized indicates values estimated by EPA. December 5, 1998



|                                |                  | R                   | ichmond Count               | y-Dean Br   | idge Road I               | F                   | Landfill Categ           | ory: Curre    |
|--------------------------------|------------------|---------------------|-----------------------------|-------------|---------------------------|---------------------|--------------------------|---------------|
|                                |                  | A. GE               | NERAL LAN                   | DFILL IN    | FORMATI                   | ON                  |                          |               |
| Landfill Owner:                | City of          | Augusta-Richmo      | nd County                   | Anı         | nual Accept               | ance Rate (t        | ons):                    | 165,702       |
| Landfill Owner Type:           | Public           |                     |                             | Yea         | ar Annual A               | .cceptance R        | ate Reported:            | 1994          |
| Alternative Landfill N         | lame:            |                     |                             | Des         | sign Capaci               | ty (tons):          |                          |               |
| City:                          | Augusta          | a                   |                             | Acı         | es Currentl               | y Landfilled        | (acres):                 | 560           |
| County:                        | Richmo           | Richmond Average De |                             |             | erage Depth               | (feet):             |                          |               |
| State:                         | GA               |                     |                             | Wa          | ste-in-Place              | (tons):             |                          | 2,326,908     |
| Year Open:                     | 1985             |                     | 1998 Waste-in-Place (tons): |             |                           | 2,714,726           |                          |               |
| Year Closed:                   | 2018             |                     |                             |             |                           |                     |                          |               |
|                                |                  | В                   | . LANDFILL (                | GAS COL     | LECTION                   |                     |                          |               |
| Estimated Methane G            | eneration (mmscj | f/d):               |                             |             | 1.11                      |                     |                          |               |
| LFG Collection System          | m Status:        |                     |                             | Opera       | ational                   |                     |                          |               |
| Current LFG Collecte           | d (mmscf/d):     |                     |                             |             | 2.4                       |                     |                          |               |
| Collection and Treatm          | nent System Requ | ired Under NSPS     | S/EG:                       |             | Yes                       |                     |                          |               |
|                                |                  | C                   | . LANDFILL                  | GAS UTII    | LIZATION                  |                     |                          |               |
| Current Utilization:           |                  |                     |                             |             |                           |                     |                          |               |
| Utilization System             | m Status:        | Operational         |                             |             |                           |                     |                          |               |
| Utilization System             | m Type:          | Direct Therm        | al                          |             |                           |                     |                          |               |
| Utilization System             |                  | 1997                |                             |             |                           |                     |                          |               |
| Electric Utility P             |                  |                     |                             |             |                           |                     |                          |               |
| Natural Gas Prov               |                  |                     |                             |             |                           |                     |                          |               |
| Energy Purchase                | ` '              | Albion-Kaolii       | n Mines                     |             |                           |                     |                          |               |
|                                |                  |                     |                             |             |                           | -                   |                          |               |
| Capacity:                      |                  | Electricity         | Generation Pr               | oject (MW   | ) (                       | )R                  | Direct Use Project (mmB  |               |
| Estimated Potent               |                  |                     |                             |             | 4                         |                     |                          | 35            |
| Current Capacity               |                  |                     |                             |             | 3.3                       |                     |                          | 33            |
| Planned Capacity               | <i>i</i> :       |                     |                             |             |                           |                     |                          |               |
| Utilities in County:           |                  | Georgia Powe        | er Company; Je              | fferson Ele | ctric Memb                | er Corp; Pla        | nters Electric Member Co | rp; Southeas  |
|                                |                  | D. ENVIR            | ONMENTAL 1                  | BENEFIT     | S OF UTII                 | IZATION             |                          |               |
|                                |                  |                     |                             | Poten       | etial                     |                     | Current                  | <u> </u>      |
| Methane Reduction (to          | ons/vr):         |                     |                             | 1 01011     |                           | 6,431               |                          | 9,251         |
| CO2 Equivalent of CH           | = "              | 15/vr):             |                             |             | 1                         | 35,053              |                          | 194,263       |
|                                |                  |                     |                             |             |                           |                     |                          |               |
| Emissions Avoided by           | Fossil Fuel Disp | placement:          | Electric                    | ity Genera  | tion Projec               | t                   | Direct Use Pr            | oject         |
|                                |                  |                     | CO2 (ton                    | ıs/yr)      | SO2 (ton                  | s/yr)               | CO2 (tons/yr)            | SO2 (tons/yr) |
|                                |                  | Coal:               | 2                           | 27,625      |                           | 175                 | 19,367                   | 176           |
|                                |                  | Fuel Oil:           |                             | 22,673      |                           | 146                 | 15,895                   | 93            |
|                                |                  | ruei Oii.           | 2                           | 2,073       |                           |                     |                          |               |
|                                |                  |                     |                             |             |                           | 0                   | 10,688                   | (             |
|                                | N                | atural Gas:         | 1                           | 5,246       |                           | U                   | 10,000                   |               |
|                                | N                |                     | E. CONTACT                  |             | <b>IATION</b>             | 0                   |                          |               |
|                                | N                | atural Gas:         | E. CONTACT                  |             | IATION                    | 0                   | Landfill Operator        |               |
| Contact Name:                  | No.              |                     | E. CONTACT                  |             | MATION  Kathy             |                     |                          |               |
| Contact Name: Mailing Address: | I                |                     | E. CONTACT                  |             | Kathy                     |                     | Landfill Operator        |               |
|                                | I                |                     | E. CONTACT                  |             | Kathy 4330 I              | Pace<br>Dean Bridge | Landfill Operator        |               |
| Mailing Address:               | I                |                     | E. CONTACT                  |             | Kathy<br>4330 I<br>706-59 | Pace                | Landfill Operator        |               |



|                                |   |                | Seminole Road           | l Dhogo I      | Ţ                                     | I an AGU C            | utegory: Candidate |  |
|--------------------------------|---|----------------|-------------------------|----------------|---------------------------------------|-----------------------|--------------------|--|
|                                |   | A. G           | ENERAL LANDFILI         |                |                                       | Lanajiii Ce           | megory: Candidate  |  |
| Landfill Owner:                | Do Kal  | b County       |                         |                | Acceptance Rate (                     | (tons):               | 123,851            |  |
| Landfill Owner Type:           | Public  | b County       |                         |                | Annual Acceptance Rate Reported: 1998 |                       |                    |  |
| Alternative Landfill N         |   | b County-Semin | ole Road                |                | Capacity (tons):                      | Rate Reported.        | 1,272,975          |  |
| City:                          | Decatu  | -              | oic Road                | _              | Currently Landfille                   | d (acres):            | 59                 |  |
| County:                        | De Kal  |                |                         |                | e Depth (feet):                       | a (acres).            | 40                 |  |
| State:                         | GA  | U              |                         | _              | n-Place (tons):                       |                       | 3,241,568          |  |
| Year Open:                     | 1986  |                |                         |                | aste-in-Place (ton                    | s):                   | 3,830,944          |  |
| Year Closed:                   | 2012  |                |                         |                |                                       |                       |                    |  |
| Tom Cropou.                    |   | ]              | B. LANDFILL GAS C       | COLLEC         | CTION                                 |                       |                    |  |
| Estimated Methane Ge           | neration (mmsc  | f/d):          |                         | 1.             | 40                                    |                       |                    |  |
| LFG Collection Syster          |   | ,,,,           |                         |                |                                       |                       |                    |  |
| Current LFG Collected          |   |                |                         |                |                                       |                       |                    |  |
|                                | Collection and Treatment System Required Under NSPS/EG:  No |                |                         |                |                                       |                       |                    |  |
|                                | <u> </u>  |                | C. LANDFILL GAS U       | J <b>TILIZ</b> | ATION                                 |                       |                    |  |
| Current Utilization:           |   |                |                         |                |                                       |                       |                    |  |
| Utilization Syster             | n Status:   | Unknown        |                         |                |                                       |                       |                    |  |
| Utilization Syster             |   | Unknown        |                         |                |                                       |                       |                    |  |
| Utilization System Start Year: |   |                |                         |                |                                       |                       |                    |  |
| Electric Utility Provider(s):  |   |                |                         |                |                                       |                       |                    |  |
| Natural Gas Provider(s):       |   |                |                         |                |                                       |                       |                    |  |
|                                | Energy Purchaser(s):  |                |                         |                |                                       |                       |                    |  |
|                                |   |                |                         |                |                                       |                       |                    |  |
| Capacity:                      |   | Electrici      | ty Generation Project ( | MW)            | OR                                    | Direct Use Project (m | mBtu/hr)           |  |
| Estimated Potenti              | al Capacity:  |                |                         |                | 4                                     |                       | 44                 |  |
| Current Capacity:              |   |                |                         |                |                                       |                       |                    |  |
| Planned Capacity               | :   |                |                         | 5.             | 6                                     |                       | 55                 |  |
| Utilities in County:           |   | Georgia Pov    | ver Company; Snapping   | g Shoals       | E M C; Southeaste                     | ern Power Admin; Walt | on Electric Mem    |  |
|                                |   | D. ENVII       | RONMENTAL BENE          | FITS O         | F UTILIZATION                         | Ī                     |                    |  |
|                                |   |                | P                       | Potential      |                                       | Cur                   | rent               |  |
| Methane Reduction (to          | ons/yr):  |                |                         |                | 8,082                                 |                       | 0                  |  |
| CO2 Equivalent of CH           | 4 Reduction (to   | ns/yr):        |                         |                | 169,718                               |                       | 0                  |  |
|                                |   |                |                         |                |                                       |                       |                    |  |
| Emissions Avoided by           | Fossil Fuel Disp  | olacement:     | Electricity Ge          |                | •                                     | Direct Use            | -                  |  |
|                                |   |                | CO2 (tons/yr)           | S              | O2 (tons/yr)                          | CO2 (tons/yr)         | SO2 (tons/yr)      |  |
|                                |   | Coal:          | 34,728                  |                | 220                                   | 24,337                | 221                |  |
|                                |   | Fuel Oil:      | 28,503                  |                | 184                                   | 19,975                | 116                |  |
|                                | N   | atural Gas:    | 19,166                  |                | 0                                     | 13,431                | 0                  |  |
|                                |   |                | E. CONTACT INFO         | ORMAT          | ION                                   |                       |                    |  |
|                                |   | Landfill       | Owner                   |                |                                       | Landfill Operator     |                    |  |
| Contact Name:                  | Thomas Black  |                |                         |                | Thomas Black                          |                       |                    |  |
| Mailing Address:               | 1300 Commerc  | ce Dr.         |                         |                | 1300 Commerce                         | Dr.                   |                    |  |
|                                | Room 201  |                |                         |                | Room 201                              |                       |                    |  |
| Phone Number:                  | 404-294-2927  |                |                         |                | 404-294-2927                          |                       |                    |  |
| Fax Number:                    | .0. 27. 2721  |                |                         |                | .0. 271 2721                          |                       |                    |  |
| ı az ıvullibel.                |   |                |                         |                |                                       |                       |                    |  |



|  |                     |              | Southern States-Bolton F              | Road                | Landfill Category:           | Current      |  |  |
|--|---------------------|--------------|---------------------------------------|---------------------|------------------------------|--------------|--|--|
|  |                     | A. G         | ENERAL LANDFILL INFO                  | ORMATION            | , ,                          |              |  |  |
| Landfill Owner:  | USA W               | /aste        | Annua                                 | al Acceptance Rate  | (tons):                      | 0            |  |  |
| Landfill Owner Type:                                       | Private             |              |                                       | Annual Acceptance   |                              | 1998         |  |  |
| Alternative Landfill Na                                    | ame: Sanifill       | -Bolton Road |                                       | n Capacity (tons):  | •                            | 1,309,533    |  |  |
| City:  | Atlanta             |              | ě                                     | Currently Landfille | ed (acres):                  | 34           |  |  |
| County:  | Fulton              |              |                                       | ge Depth (feet):    | ,                            | 100          |  |  |
| State:   | GA                  |              |                                       | -in-Place (tons):   |                              | 1.667.108    |  |  |
| Year Open:   | 1987                |              |                                       | Waste-in-Place (ton | (s):                         | 1,798,182    |  |  |
| Year Closed:   | 1995                |              |                                       |                     | ~).                          | -,           |  |  |
|  |                     | I            | B. LANDFILL GAS COLLE                 | CTION               |                              |              |  |  |
| Estimated Methane Ge                                       | neration (mmsc      | f/d):        | (                                     | ).88                |                              |              |  |  |
| LFG Collection System                                      |                     | ,            | Operational                           |                     |                              |              |  |  |
| Current LFG Collected                                      |                     |              | 1                                     |                     |                              |              |  |  |
| Collection and Treatment System Required Under NSPS/EG: No |                     |              |                                       |                     |                              |              |  |  |
|  | <u> </u>            |              | C. LANDFILL GAS UTILIZ                | ZATION              |                              |              |  |  |
| Current Utilization:                                       |                     |              |                                       |                     |                              |              |  |  |
| Utilization System   | n Status:           | Operational  |                                       |                     |                              |              |  |  |
| Utilization System   |                     | Direct Thern | าลไ                                   |                     |                              |              |  |  |
| Utilization System Start Year: 1996                        |                     |              |                                       |                     |                              |              |  |  |
| Electric Utility Provider(s):                              |                     |              |                                       |                     |                              |              |  |  |
| Natural Gas Provider(s):                                   |                     |              |                                       |                     |                              |              |  |  |
| Energy Purchaser(s): Blue Circle Cement                    |                     |              |                                       |                     |                              |              |  |  |
| Energy I dichaser(s).                                      |                     |              |                                       |                     |                              |              |  |  |
| Capacity:  |                     | Electrici    | ty Generation Project (MW)            | OR                  | Direct Use Project (mmBtu/h  | r)           |  |  |
| Estimated Potenti  | al Capacity:        |              |                                       | 3                   |                              | 27           |  |  |
| Current Capacity:  |                     |              | 8                                     | 3.9                 |                              | 7            |  |  |
| Planned Capacity   |                     |              |                                       |                     |                              |              |  |  |
| There is an a  |                     | G II EL . :  | M 1 11 C C II                         |                     | . E. W. El M. J.C.           | F . D .      |  |  |
| Utilities in County:                                       |                     |              |                                       |                     | weta-Fayette Elec Memb Coop; | East Poi     |  |  |
|  |                     | D. ENVIR     | CONMENTAL BENEFITS (                  |                     |                              |              |  |  |
|  |                     |              | Potentia                              |                     | Current                      |              |  |  |
| Methane Reduction (to                                      | - ·                 |              |                                       | 5,076               |                              | 0            |  |  |
| CO2 Equivalent of CH                                       | 4 Reduction (to     | ns/yr):      |                                       | 106,592             |                              | 0            |  |  |
| Emissions Avoided by                                       | Fossil Fuel Disa    | nlacement:   | Electricity Generatio                 | n Project           | Direct Use Projec            | t            |  |  |
| Emissions Tivotaca by                                      | r ossii r iici Disp | racement.    | · · · · · · · · · · · · · · · · · · · | SO2 (tons/yr)       |                              | 02 (tons/yr) |  |  |
|  |                     | Coal:        | 21,311                                | 135                 | 15,285                       | 139          |  |  |
|  |                     | Fuel Oil:    | 17,491                                | 113                 | 12,545                       | 73           |  |  |
|  | N                   | atural Gas:  | 11,761                                | 0                   | 8,436                        | 0            |  |  |
|  |                     |              | E. CONTACT INFORMA                    |                     | 2,22                         |              |  |  |
|  |                     | Landfill (   |                                       | HON                 | Landfill Operator            |              |  |  |
| Contact Name:  | Jerry Leone         |              |                                       | Jerry Leone         |                              |              |  |  |
|  | -                   | _            |                                       | -                   |                              |              |  |  |
| Mailing Address:   | 2236 Bolton R       | d.           |                                       | 2236 Bolton Rd      |                              |              |  |  |
| Phone Number:  | 40.4.500 : 5 :      |              |                                       | 40.4 500 500 5      |                              |              |  |  |
| r none mumber:   | 404-799-1047        |              |                                       | 404-799-1047        |                              |              |  |  |
| Fax Number:  | 404-953-1169        |              |                                       | 404-799-1328        |                              |              |  |  |



|                              |  |                  | Speedway-SR 32                        | 4 Sito I                                |                  | Landfill Cate          | egory: Candidate |  |  |
|------------------------------|--|------------------|---------------------------------------|---|------------------|------------------------|------------------|--|--|
|                              |  | A. G             | ENERAL LANDFILL 1                     |   | TION             | Lanajiii Caid          | gory. Calididate |  |  |
| Landfill Owner:              | U.S.A.                                     | Waste            |                                       | Annual Acce                             | eptance Rate (to | ons):                  | 0                |  |  |
| Landfill Owner Type:         | Private                                    | ,, asce          | Year Annual Acceptance Rate Reported: |   |                  | 1998                   |                  |  |  |
| Alternative Landfill Name:   |  |                  |                                       |   |                  | ate Hepottes.          | 1,272,549        |  |  |
| City:                        | Winder Acres Currently Landfilled (acres): |                  |                                       |   |                  |                        |                  |  |  |
| County:                      | Barrow                                     |                  | Average Depth (feet):                 |   |                  |                        |                  |  |  |
| State:                       | GA   |                  |                                       |   | -in-Place (tons) | ):                     | 50<br>2,838,500  |  |  |
| Year Open:                   | 1988                                       |                  |                                       |   | in-Place (tons)  |                        | 2,838,500        |  |  |
| Year Closed:                 | 1997                                       |                  | -                                     | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | 1 10100 (10115)  |                        | 2,000,000        |  |  |
| Tour Groseu.                 | 1,7,7                                      | ]                | B. LANDFILL GAS CO                    | LLECTIO                                 | N                |                        |                  |  |  |
| Estimated Methane Generation | on (mmsc                                   | f/d):            |                                       | 1.14                                    |                  |                        |                  |  |  |
| LFG Collection System Statu  | -  | ,,.              |                                       |   |                  |                        |                  |  |  |
| Current LFG Collected (mms   |  |                  |                                       |   |                  |                        |                  |  |  |
| Collection and Treatment Sys |  | iired Under NSF  | PS/EG:                                | No                                      |                  |                        |                  |  |  |
|                              |  |                  | C. LANDFILL GAS UT                    |   | )N               |                        |                  |  |  |
| Current Utilization:         |  |                  |                                       |   |                  |                        |                  |  |  |
| Utilization System Statu     | 15'  | Planned          |                                       |   |                  |                        |                  |  |  |
| Utilization System Type      |  | Direct Therr     | nal                                   |   |                  |                        |                  |  |  |
| Utilization System Start     |  | Birect Theri     |                                       |   |                  |                        |                  |  |  |
| Electric Utility Provider    |  |                  |                                       |   |                  |                        |                  |  |  |
| Natural Gas Provider(s)      |  |                  |                                       |   |                  |                        |                  |  |  |
| Energy Purchaser(s):         | •  | Barrow Cou       | nty Schools, Duckhead                 |   |                  |                        |                  |  |  |
| Energy runemaser(s).         |  | 2411011 004      | nty sensois, suchiteud                |   |                  |                        |                  |  |  |
| Capacity:                    |  | Electrici        | ty Generation Project (M              | W)                                      | OR               | Direct Use Project (mm | ıBtu/hr)         |  |  |
| Estimated Potential Cap      | pacity:                                    |                  |                                       | 4                                       |                  |                        | 36               |  |  |
| Current Capacity:            |  |                  |                                       |   |                  |                        |                  |  |  |
| Planned Capacity:            |  |                  |                                       | 1.7                                     |                  |                        | 14               |  |  |
| Utilities in County:         |  | Georgia Pov      | ver Company; Jackson El               | ectric Dent:                            | : Jackson Elect  | ric Member Corp: South | eastern Power    |  |  |
|                              |  |                  | RONMENTAL BENEFI                      |   |                  | 1,111                  |                  |  |  |
|                              |  | ,, , <del></del> |                                       | tential                                 |                  | Curre                  | ent              |  |  |
| Methane Reduction (tons/yr). |  |                  | Foi                                   | снии                                    | 6,614            | Curre                  | 0                |  |  |
| CO2 Equivalent of CH4 Redi   |  | ıs/vr)·          |                                       |   | 138,898          |                        | 0                |  |  |
| CO2 Equivalent of C114 Real  |  | ыл y1 <b>).</b>  |                                       |   | 130,070          |                        |                  |  |  |
| Emissions Avoided by Fossil  | Fuel Disp                                  | lacement:        | Electricity Gene                      | eration Proj                            | ect              | Direct Use I           | Project          |  |  |
|                              |  |                  | CO2 (tons/yr)                         | SO2 (t                                  | tons/yr)         | CO2 (tons/yr)          | SO2 (tons/yr)    |  |  |
|                              |  | Coal:            | 28,414                                |   | 180              | 19,918                 | 181              |  |  |
|                              |  |                  | 20,111                                |   | 150              | 1,,,10                 |                  |  |  |

| Di El VIII DE LE ITO OT OTENENTO.              |                   |                |                    |               |  |  |  |  |
|--|-------------------|----------------|--------------------|---------------|--|--|--|--|
|  | Pote              | ential         | Current            |               |  |  |  |  |
| Methane Reduction (tons/yr):                   |                   | 6,614          |                    | 0             |  |  |  |  |
| CO2 Equivalent of CH4 Reduction (tons/yr):     |                   | 138,898        |                    | 0             |  |  |  |  |
| Emissions Avoided by Fossil Fuel Displacement: | Electricity Gener | ration Project | Direct Use Project |               |  |  |  |  |
|  | CO2 (tons/yr)     | SO2 (tons/yr)  | CO2 (tons/yr)      | SO2 (tons/yr) |  |  |  |  |
| Coal:  | 28,414            | 180            | 19,918             | 181           |  |  |  |  |
| Fuel Oil:                                      | 23,321            | 150            | 16,348             | 95            |  |  |  |  |
| Natural Gas:                                   | 15,681            | 0              | 10,992             | 0             |  |  |  |  |
|  | F CONTACT INFOR   | MATION         |                    |               |  |  |  |  |

|                  | Landfill Owner   | Landfill Operator |  |  |
|------------------|------------------|-------------------|--|--|
| Contact Name:    | Jerry Leone      | Jerry Leone       |  |  |
| Mailing Address: | 2236 Bolton Road | 2236 Bolton Road  |  |  |
|                  |                  |                   |  |  |
| Phone Number:    | 404-799-1047     | 404-799-1047      |  |  |
| Fax Number:      | 770-307-0934     | 404-799-1328      |  |  |
| 1                |                  |                   |  |  |

<sup>\*</sup> Itallicized indicates values estimated by EPA. Page: December 5, 1998 State: GA 16



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|                            |                  | 4 (0)            | UWL Inc-Richland Cre               |                        | Landfill Cat           | egory: Candidate |  |  |
|----------------------------|------------------|------------------|------------------------------------|------------------------|------------------------|------------------|--|--|
|                            |                  | A. G             | ENERAL LANDFILL IN                 |                        |                        |                  |  |  |
| Landfill Owner:            | BFI              |                  |                                    | nual Acceptance Rate   |                        | 673,870          |  |  |
| Landfill Owner Type:       | Private          |                  |                                    | ar Annual Acceptance   | Rate Reported:         | 1998             |  |  |
| Alternative Landfill N     |                  |                  | Design Capacity (tons): 11,020,396 |                        |                        |                  |  |  |
| City:                      | Buford           |                  |                                    | es Currently Landfille | ed (acres):            | 164              |  |  |
| County:                    | Gwinne           | ett              | Ave                                | erage Depth (feet):    |                        | 75               |  |  |
| State:                     | GA               |                  | Wa                                 | ste-in-Place (tons):   |                        | 3,491,863        |  |  |
| Year Open:                 | 1987             |                  | 199                                | 8 Waste-in-Place (ton  | s):                    | 4,190,236        |  |  |
| Year Closed:               | 2011             |                  |                                    |                        |                        |                  |  |  |
| B. LANDFILL GAS COLLECTION |                  |                  |                                    |                        |                        |                  |  |  |
| Estimated Methane Ge       | neration (mmscj  | f/d):            |                                    | 1.49                   |                        |                  |  |  |
| LFG Collection System      | n Status:        |                  |                                    | None                   |                        |                  |  |  |
| Current LFG Collected      | l (mmscf/d):     |                  |                                    |                        |                        |                  |  |  |
| Collection and Treatm      | ent System Requ  | iired Under NSP  | PS/EG:                             | No                     |                        |                  |  |  |
|                            |                  |                  | C. LANDFILL GAS UTII               | LIZATION               |                        |                  |  |  |
| Current Utilization:       |                  |                  |                                    |                        |                        |                  |  |  |
| Utilization Syster         | n Status:        | Planned          |                                    |                        |                        |                  |  |  |
| Utilization System         |                  | Reciprocatin     | a Engine                           |                        |                        |                  |  |  |
| Utilization System         |                  | Reciprocatin     | 5 Eligine                          |                        |                        |                  |  |  |
| Electric Utility Pr        |                  |                  |                                    |                        |                        |                  |  |  |
| Natural Gas Prov           |                  |                  |                                    |                        |                        |                  |  |  |
| Energy Purchaser           | ` '              |                  |                                    |                        |                        |                  |  |  |
| Ellergy I urchaser         | (8).             |                  |                                    |                        |                        |                  |  |  |
| Capacity:                  |                  | Electrici        | ty Generation Project (MW          | ) OR                   | Direct Use Project (mn | nBtu/hr)         |  |  |
| Estimated Potenti          | al Capacity:     |                  |                                    | 5                      |                        | 47               |  |  |
| Current Capacity:          |                  |                  |                                    |                        |                        | .,               |  |  |
| Planned Capacity           |                  |                  |                                    | 8.0                    |                        | 62               |  |  |
|                            | •                |                  |                                    |                        |                        | -                |  |  |
| Utilities in County:       |                  |                  | rical Dept; Georgia Power          |                        |                        | ric Member C     |  |  |
|                            |                  | D. ENVIR         | RONMENTAL BENEFIT                  | S OF UTILIZATION       | <b>N</b>               |                  |  |  |
|                            |                  |                  | Poten                              |                        | Curre                  | ent              |  |  |
| Methane Reduction (to      | ons/yr):         |                  |                                    | 8,613                  |                        | 0                |  |  |
| CO2 Equivalent of CH       | 4 Reduction (tor | ıs/yr):          |                                    | 180,875                |                        | 0                |  |  |
| F:                         | Eil El Di        | 1                | Electricite Commun                 |                        | Dinas II-              | D i              |  |  |
| Emissions Avoided by       | rossu ruei Disp  | насетент:        | Electricity General                | -                      | Direct Use             | ,                |  |  |
|                            |                  |                  | CO2 (tons/yr)                      | SO2 (tons/yr)          | CO2 (tons/yr)          | SO2 (tons/yr)    |  |  |
|                            |                  | Coal:            | 37,096                             | 235                    | 25,937                 | 236              |  |  |
|                            |                  | Fuel Oil:        | 30,447                             | 196                    | 21,288                 | 124              |  |  |
|                            | N                | atural Gas:      | 20,473                             | 0                      | 14,314                 | 0                |  |  |
|                            |                  |                  | E. CONTACT INFORM                  | IATION                 |                        |                  |  |  |
|                            |                  | Landfill (       | Owner                              |                        | Landfill Operator      |                  |  |  |
| Contact Name:              | John Bean, Dir   | ector of Marketi | ng                                 | John Bean, Direc       | ctor of Marketing      |                  |  |  |
| Mailing Address:           | 757 North Eldr   | idge             |                                    | 757 North Eldrid       | lge                    |                  |  |  |
| -                          |                  | -                |                                    |                        | -                      |                  |  |  |
| Phone Number:              | 281-870-7450     |                  |                                    | 281-870-7450           |                        |                  |  |  |

281-584-8043



Fax Number:

|  |                         |                                       | WMI-BJ Landfill Pha      | ise 3&4                     |                             | Landfill Categ          | ory: Current                            |
|--|-------------------------|---------------------------------------|--------------------------|-----------------------------|-----------------------------|-------------------------|---|
|  |                         | A. Gl                                 | ENERAL LANDFILL IN       | FORMATI                     | ON                          |                         |   |
| Landfill Owner:                                | WMI                     |                                       | An                       | nual Accept                 | ance Rate (tons             | s):                     | 343,753                                 |
| Landfill Owner Type:                           |                         |                                       |                          | -                           | cceptance Rate              |                         | 1994                                    |
| Alternative Landfill N                         | ame:                    |                                       |                          | sign Capacit                | •                           | •                       | 2,500,000                               |
| City:  | Norcros                 | SS                                    |                          |                             | y Landfilled (a             | cres):                  | 120                                     |
| County:  | Gwinne                  | ett                                   |                          | erage Depth                 |                             | ,                       | 75                                      |
| State:   |                         |                                       |                          | 1994 Waste-in-Place (tons): |                             |                         | 4,627,157                               |
| Year Open:                                     | 1984                    |                                       |                          | 3 Waste-in-Place (tons):    |                             |                         |   |
| Year Closed:                                   | 2001                    | 1998 Waste-in-Place (tons): 5,881,470 |                          |                             |                             |                         | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |
|  |                         | I                                     | B. LANDFILL GAS COL      | LECTION                     |                             |                         |   |
| Estimated Methane Ge                           | eneration (mmsc         | f/d):                                 |                          | 1.92                        |                             |                         |   |
| LFG Collection Syster                          | n Status:               |                                       | Oper                     | ational                     |                             |                         |   |
| Current LFG Collected                          | d (mmscf/d):            |                                       |                          | 1.1                         |                             |                         |   |
| Collection and Treatm                          |                         | uired Under NSP                       | S/EG:                    | No                          |                             |                         |   |
|  |                         |                                       | C. LANDFILL GAS UTI      | LIZATION                    |                             |                         |   |
| Current Utilization:                           |                         |                                       |                          |                             |                             |                         |   |
| Utilization Syster                             | n Status:               | Operational                           |                          |                             |                             |                         |   |
| Utilization System                             |                         | Reciprocatin                          | σ Engine                 |                             |                             |                         |   |
| Utilization System                             |                         | 1993                                  | 5 Luguic                 |                             |                             |                         |   |
| Electric Utility Pr                            |                         | 1//3                                  |                          |                             |                             |                         |   |
| Natural Gas Prov                               |                         |                                       |                          |                             |                             |                         |   |
|  |                         | Oalathama I                           | Davisan Cama             |                             |                             |                         |   |
| Energy Purchaser                               | (8):                    | Oglethorpe I                          | ower Corp                |                             |                             |                         |   |
| Capacity:                                      |                         | Electrici                             | y Generation Project (MW | () C                        | R D                         | irect Use Project (mmB  | tu/hr)                                  |
| Estimated Potenti                              | ial Capacity:           |                                       |                          | 6                           |                             |                         | 60                                      |
| Current Capacity:                              |                         | 3.9                                   |                          |                             | 30                          |                         |   |
| Planned Capacity:                              |                         |                                       |                          |                             |                             |                         |   |
| Utilities in County: Buford Elect              |                         | rical Dept; Georgia Power             | Company                  | lackson Flactri             | a Dant: Jackson Flactri     | Mambar C                |   |
| Cultures in County.                            |                         |                                       |                          |                             |                             | C Dept, Jackson Electro | . Wiemoer C                             |
|  |                         | D. ENVIR                              | CONMENTAL BENEFIT        |                             | AZATION                     |                         |   |
|  |                         |                                       | Poter                    |                             |                             | Curren                  |   |
| Methane Reduction (tons/yr):                   |                         |                                       |                          |                             | 11,114                      |                         | 4,240                                   |
| CO2 Equivalent of CH4 Reduction (tons/yr):     |                         |                                       |                          | 2                           | 233,396                     |                         | 89,036                                  |
| Emissions Avoided by Fossil Fuel Displacement: |                         |                                       | Electricity Genero       | ation Projec                | f                           | Direct Use Pr           | niect                                   |
| Emissions Avoided by Possii Puet Displacement. |                         |                                       |                          |                             | CO2 (tons/yr) SO2 (tons/yr) |                         |   |
|  |                         |                                       | , , ,                    | 502 (1011                   |                             | •                       |   |
|  |                         | Coal:                                 | 47,357                   |                             | 299                         | 33,469                  | 305                                     |
| Fuel Oil:                                      |                         | 38,868                                |                          | 250                         | 27,470                      | 160                     |   |
| Natural Gas:                                   |                         |                                       | 26,136                   |                             | 0                           | 18,471                  | 0                                       |
|  |                         |                                       | E. CONTACT INFORM        | MATION                      |                             |                         |   |
|  |                         | Landfill (                            |                          |                             |                             | Landfill Operator       |   |
| Contact Name:                                  | Gordon Laytor           | 1                                     |                          | Gordo                       | n Layton                    |                         |   |
|  |                         |                                       |                          |                             |                             |                         |   |
| Mailing Address: 1189 Henrico Road             |                         |                                       | 11891                    | Henrico Road                |                             |                         |   |
| Phone Number:                                  | le Number: 770 440 2007 |                                       |                          | 770 440 2007                |                             |                         |   |
| 770 440 3777                                   |                         |                                       | //0-44                   | 18-3997                     |                             |                         |   |
| Fax Number:                                    |                         |                                       |                          |                             |                             |                         |   |
|  |                         |                                       |                          |                             |                             |                         |   |



|  |                            |                 | WMI-Live Oak LF   | 7  | Landfill Co           | ategory: Candidate |
|--|----------------------------|-----------------|---|--|-----------------------|--------------------|
|  |                            | A. G            | ENERAL LANDFILL INFO  |  | Eunajii Ce            | negory. Candidate  |
| Landfill Owner:                                | WMI                        | 71. 0           |   |  | (tons):               | 114,000            |
| Landfill Owner Type:                           | W IVII                     |                 |   | al Acceptance Rate<br>Annual Acceptance                      |                       | 114,000<br>1995    |
| • •  | ıme:                       |                 |   | •  | Kate Reported.        | 10,780,000         |
| Alternative Landfill Name:                     |                            |                 | _   | Design Capacity (tons):  Acres Currently Landfilled (acres): |                       |                    |
| City: County:                                  | Conley<br>De Kall          |                 |   | age Depth (feet):  | 410<br>100            |                    |
| State:   |                            |                 |   | Waste-in-Place (to   | 5,266,000             |                    |
| Year Open:                                     | 1985                       |                 |   | Waste-in-Place (to   | ·                     | 7,798,000          |
| Year Closed:                                   | 2050                       |                 | 1//0  | waste-in-1 tace (to  | 13).                  | 7,776,000          |
| Tear Closed.                                   | B. LANDFILL GAS COLLECTION |                 |   |  |                       |                    |
| Estimated Methane Ge                           | neration (mmsc)            | f/d):           |   | 2.41   |                       |                    |
| LFG Collection System                          | n Status:                  |                 | Operati   | onal   |                       |                    |
| Current LFG Collected                          | l (mmscf/d):               |                 |   | 1.4  |                       |                    |
| Collection and Treatme                         | ent System Requ            | uired Under NSF | PS/EG:  | No   |                       |                    |
|  |                            |                 | C. LANDFILL GAS UTILI   | ZATION   |                       |                    |
| Current Utilization:                           |                            |                 |   |  |                       |                    |
| Utilization Systen                             | n Status:                  | Planned         |   |  |                       |                    |
| Utilization Systen                             |                            | Reciprocatin    | g Engine  |  |                       |                    |
| Utilization Systen                             |                            | 1               |   |  |                       |                    |
| Electric Utility Pr                            |                            |                 |   |  |                       |                    |
| Natural Gas Provi                              |                            |                 |   |  |                       |                    |
| Energy Purchaser                               |                            |                 |   |  |                       |                    |
|  | ` '                        |                 |   |  |                       |                    |
| Capacity:                                      |                            | Electrici       | ty Generation Project (MW)  | OR   | Direct Use Project (m | mBtu/hr)           |
| Estimated Potenti                              | al Capacity:               |                 |   | 8  |                       | 75                 |
| Current Capacity:                              |                            |                 |   |  |                       |                    |
| Planned Capacity:                              |                            |                 | 3.8   |  |                       | 29                 |
| Utilities in County:                           |                            | Georgia Pov     | wer Company; Snapping Shoals E M C; Southeastern Power Admin; Walton Electric Mem |  |                       |                    |
|  |                            | D. ENVII        | RONMENTAL BENEFITS  | OF UTILIZATIO  | N                     |                    |
| Potential Current                              |                            |                 |   |  |                       | rent               |
| Methane Reduction (tons/yr):                   |                            |                 |   | 13,948   |                       | 5,396              |
| CO2 Equivalent of CH4 Reduction (tons/yr):     |                            | ns/yr):         |   | 292,914  |                       | 113,320            |
|  |                            |                 |   |  | D .                   |                    |
| Emissions Avoided by Fossil Fuel Displacement: |                            | olacement:      | Electricity Generation  | =  | Direct Use            | "                  |
|  |                            | CO2 (tons/yr)   | SO2 (tons/yr)   | CO2 (tons/yr)  | SO2 (tons/yr)         |                    |
| Coal:  |                            |                 | 59,196  | 374  | 42,003                | 382                |
| Fuel Oil:                                      |                            | 48,585          | 313   | 34,474   | 201                   |                    |
| Natural Gas:                                   |                            | 32,669          | 0   | 23,181   | 0                     |                    |
| E. CONTACT INFORMATION                         |                            |                 |   |  |                       |                    |
| Landfill Owner                                 |                            |                 | Landfill Operator   |  |                       |                    |
| Contact Name:                                  | Gordon Layton              |                 | Gordon Layton   |  |                       |                    |
| Mailing Address:                               | 1189 Henrico Road          |                 | 1189 Henrico Road   |  |                       |                    |
| -  |                            |                 |   |  |                       |                    |
|  | 770-448-3997               |                 |   | 404-361-1182   |                       |                    |
| Phone Number:                                  | 770-448-3997               |                 |   | 404-361-1182   |                       |                    |



Watts Road LF Landfill Category: Candidate A. GENERAL LANDFILL INFORMATION Landfill Owner: BFI Annual Acceptance Rate (tons): Landfill Owner Type: Private Year Annual Acceptance Rate Reported: Alternative Landfill Name: **BFI-Watts Road** Design Capacity (tons): City: Atlanta Acres Currently Landfilled (acres): 55 County: Fulton Average Depth (feet): 55 State: GA 1994 Waste-in-Place (tons): 6,000,000 6,000,000 Year Open: 1970 1998 Waste-in-Place (tons): Year Closed: 1987 **B. LANDFILL GAS COLLECTION** 1.95 Estimated Methane Generation (mmscf/d): LFG Collection System Status: Operational Current LFG Collected (mmscf/d): 2.3 Collection and Treatment System Required Under NSPS/EG: No C. LANDFILL GAS UTILIZATION Current Utilization: **Utilization System Status:** Planned Utilization System Type: Reciprocating Engine 1999 Utilization System Start Year: Electric Utility Provider(s): **GA** Power Natural Gas Provider(s): Energy Purchaser(s): Capacity: Electricity Generation Project (MW) OR Direct Use Project (mmBtu/hr)

Capacity: Electricity Generation Project (MW) OR Direct Use Project (mmBtu/hr)

Estimated Potential Capacity: 6 61

Current Capacity: 2.5 19

Utilities in County:

Cobb Electric Membership Corp; College Park Elec Syst; Coweta-Fayette Elec Memb Coop; East Poi

| D. ENVIRONMENTAL BENEFITS OF UTILIZATION       |                                |               |                    |               |  |
|--|--------------------------------|---------------|--------------------|---------------|--|
|  | Potential                      |               | Current            |               |  |
| Methane Reduction (tons/yr):                   |                                | 11,289        | 8,865              |               |  |
| CO2 Equivalent of CH4 Reduction (tons/yr):     |                                | 237,077       | 186,167            |               |  |
| Emissions Avoided by Fossil Fuel Displacement: | Electricity Generation Project |               | Direct Use Project |               |  |
|  | CO2 (tons/yr)                  | SO2 (tons/yr) | CO2 (tons/yr)      | SO2 (tons/yr) |  |
| Coal:  | 48,146                         | 304           | 33,996             | 309           |  |
| Fuel Oil:                                      | 39,516                         | 254           | 27,903             | 163           |  |
| Natural Gas:                                   | 26,571                         | 0             | 18,762             | 0             |  |

## E. CONTACT INFORMATION

Landfill Owner

| Contact Name:    | John Bean, Director of Marketing | John Bean, Director of Marketing |
|------------------|----------------------------------|----------------------------------|
| Mailing Address: | 757 North Eldridge               | 757 North Eldridge               |
|                  |                                  |                                  |
| Phone Number:    | 281-870-7450                     | 281-870-7450                     |
| Fax Number:      | 504-686-0189                     | 281-584-8043                     |
|                  |                                  |                                  |

\* Itallicized indicates values estimated by EPA.

December 5, 1998

State: GA

Landfill Operator

Page: